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## **1.0 INTRODUCTION**

### **1.1 OBJECTIVE**

In accordance with the terms of the March 26, 1996 Unilateral Administrative Order (UAO) issued to NL Industries, Inc. (NL) by the United States Environmental Protection Agency (USEPA), this Removal Action Report (RAR) has been prepared by ENTACT & Associates, LLC (ENTACT) to present the results of a residential soil removal action (RA) conducted in the vicinity of the former Dutch Boy facility in Chicago, Illinois, (Site) from December 2004 to January 2005. The RA was conducted in accordance with the approved May 20, 2002, Remedial Design/Remedial Action (RD/RA) Work Plan (Workplan) prepared by Environmental Strategies Corporation (ECS) on behalf of NL for the Site.

The RAR summarizes the procedures and methodologies followed during the sampling and removal activities and the analytical results that verify that all removal action levels have been met. This report consists of seven sections, as summarized below:

- Section 2: Site Description – Section 2 provides a description of the Site, including location and history.
- Section 3: Project Preparation and Mobilization – Section 3 describes the tasks involved in preparation for the sampling as presented in the Workplan.
- Section 4: Removal Action Activities – Section 4 describes the tasks involved in removal activities as presented in the Workplan.
- Section 5: Quality Control Procedures – Section 5 describes the field sampling, instrument calibration, and laboratory procedures.
- Section 6: Project Management and Personnel – Section 6 describes the project team, project organization, and responsibilities.
- Section 7 Health and Safety – Section 7 describes the health and safety measures implemented during the project.
- Section 8: Project Scheduling and Reporting – Section 8 describes the management of project records and outlines the reports submitted during the project.

### **1.2 PROJECT SCOPE OF WORK**

The objective of the off-Site RA was to reduce the threat to human health and the environment posed by surface soil containing concentrations of lead above the USEPA-established residential cleanup goal for lead of 500 milligrams per kilogram (mg/kg).

In accordance with the Workplan, the general scope of work activities performed by ENTACT consisted of the following:

- Preparing the Site-specific Health and Safety Plan (HASP);
- Scheduling utility clearance;
- Collecting waste characterization samples for analysis of all required parameters and submittal of all necessary waste profile information to characterize the waste and allow for disposal of excavated impacted materials at a licensed non-hazardous Resource Conservation and Recovery Act (RCRA) Subtitle D disposal facility;
- Clearing and grubbing as necessary in areas where excavation activities were to be performed;
- Excavating all soils found to be impacted with lead and exceeding the RA cleanup goals, followed by placement in stockpiles in the designated staging area;
- Performing X-Ray Fluorescence (XRF) field screening for total lead in soils to guide the vertical and lateral extents of the excavation;
- Collecting confirmatory soil samples within excavations to determine whether or not the cleanup goals have been achieved;
- Transporting excavated soils to the approved RCRA Subtitle D landfill (nonhazardous waste) depending on the extractable lead concentrations;
- Backfilling all excavations with clean fill to grade;
- Implementing dust control measures throughout the RA; and
- Controlling and limiting access to the exclusion zone through the use of fencing.

This report is presenting the results of the RA to demonstrate that the soil cleanup goals have been effectively met at the properties identified by the USEPA and that all activities required under the UAO have been completed.

## **2.0 SITE DESCRIPTION**

### **2.1 SITE LOCATION AND HISTORY**

The 5.2-acre Site, a former lead-based paint manufacturing facility, is located at 12042 S. Peoria Street in the West Pullman neighborhood of Chicago, Illinois, in Cook County, Illinois (Figure 1). The Site is surrounded by industrial facilities and warehouses to the north and south, and vacant or abandoned lots to the east and west. Residential neighborhoods lie to the north, east, and south.

Historic operations included the manufacture and refinement of white lead (lead carbonate) and lead oxide for lead-based paints and other lead-related products from 1906 to 1980. Based on previous reports, building demolition occurred at the Site from the mid-1980s to 1996.

Environmental investigations began at the Site in 1986 with the Illinois Environmental Protection Agency (IEPA) conducting a removal action. A summary of previous investigations at the Site are described in Section 2.4 of the Supplemental Remedial Action Work Plan prepared by ESC on July 1, 1999.

On May 20, 2002, ESC prepared a RD/RA Workplan on behalf of NL in accordance with the UAO dated March 26, 1996. The Workplan was designed to implement the USEPA-approved alternative to abate the risks associated with lead-containing soil at off-Site residential properties. Soil sampling conducted in 2002 identified residential properties in the vicinity of the Site as having soil lead concentrations exceeding the USEPA cleanup criterion of 500 mg/kg.

On November 29, 2004, ENTACT mobilized to remediate 26 residential properties with soil lead concentrations greater than 500 mg/kg located near the Site. Locations of the residential properties are identified on Table 1.

### **3.0 PROJECT PREPARATION AND MOBILIZATION**

Mobilization and Site preparation activities for the RA were initiated on November 29, 2004. These activities included the setup of the temporary office and personnel decontamination area, installing temporary fencing, delineating work zones, conducting the health and safety orientation meeting, coordinating with suppliers and subcontractors associated with the fieldwork, installing stormwater and erosion control measures, performing utility clearances, and construction of the staging area.

Project preparation activities are described in further detail in the following sections.

#### **3.1 RESIDENTIAL PROPERTY PREPARATION**

Preparation of the residential properties slated for soil removal included: interviewing the property owner, surveying the property boundaries, photo-documenting initial site conditions, securing the site while providing entrance and exit ways to structures, and implementing erosion and sediment control measures.

The Illinois utility location service, J.U.L.I.E., was notified prior to excavation to identify and mark all known utilities. Utilities were noted on the pre-removal property assessment forms, which were used by field teams to guide excavations. Hand excavation around utilities was performed, where necessary, to ensure appropriate safety protocol.

Each property was photo-documented prior to excavation activities to record property conditions prior to remedial activities. Still photographs were captured utilizing digital camera equipment and uploaded to a personal computer for archive storage secured at ENTACT's Westmont, Illinois, office. Each set of photographs was coded by property location and retained in the project files. Sample photographs are presented in Appendix A.

During an on-site meeting with the property owner, an ENTACT representative documented property conditions, unmarked private utilities, and any specific requests or requirements from the property owner in preparation for soil removal and restoration activities. Following is a summary of the 26 properties sampled by ENTACT between December 2004 and January 2005:

Owner	Address	Date(s) Sampled
Steve Otter	11816 Emerald Ave	12/08/04
Henry Wilson	751 W. 118 <sup>th</sup> St	12/08/04
Mike Hardrick	710 W. 118 <sup>th</sup> St	12/16/04
Nadine Rollins	11818 Union Ave	12/16/04
Harlette Washington	11820 Union Ave	12/16/04
Urgentine Conner	12046-48 Union Ave	12/16/04
Rev. McCoy	12105 Halsted St	12/16/04
Michael Bradley	12024 Union Ave	12/16/04
Ethel Peacock	820W. 122 <sup>nd</sup> St	12/16/04
Lillie Baines	853-55 W. 122 <sup>nd</sup> St	12/16/04
Brian Wilson	901 W. 122 <sup>nd</sup> St	12/16/04
Pete Linton	12227 Peoria St	12/21/04; 1/11/05
Allen Gordon	12210 Green St	12/16/04
Chico Polk	11827 Morgan St	12/21/04
Eddie Lou	835 W. 122 <sup>nd</sup> St	12/21/04
Carl & Angela Ward	11725 Sangamon St	12/21/04; 1/11/05
Vanetta Hall	11730 Sangamon St	12/21/04
Annie Rodgers	11814 Sangamon St	12/21/04
Leroy Collins	11744 Sangamon St	12/21/04
Ludwik Pawlowicz	11736 Sangamon St	12/21/04
UNKNOWN	12239 Green St	12/22/04
Warren Green	11834 Peoria St	12/27/04; 12/28/04
Romilda Rose	11828 Peoria St	12/28/04; 12/29/04
Mary Stuckey	11820 Peoria St	12/27/04
Renita Anderson	11824 Peoria St	12/28/04; 12/29/04
UNKNOWN	12223 Green St	1/11/05

Documentation was maintained for each property at which sampling and removal activities occurred, including access agreements, property diagrams, inventory, and analytical results were maintained in these folders.

### 3.2 STAGING AREA PREPARATION

ENTACT established a temporary soil staging area at 12235 S. Ashland Ave., Chicago, Illinois (former JR Auto Body and GEK Pipe Supply property) located approximately 1.5 miles west of the Site (Figure 1). In accordance with the Workplan, preparation for the staging area consisted of securing the area, implementing erosion and sediment control measures, conducting pre-use sampling, constructing a stabilized entrance/exit, and constructing a lined area for soil stabilization.

ENTACT staged material, equipment, and project trailers associated with remediation of residential properties surrounding the former Dutch Boy facility. The boundaries were secured with temporary orange snow fencing and/or yellow caution tape to control access to the work area during remedial activities. Warning signs and barricades were also utilized for Site control. Only authorized project personnel were permitted to enter the property during such activities. Properties were secured in this manner during the evening and night hours.

The stockpile staging area, measuring approximately 50 feet (ft) by 100 ft, was located at the south end of the property and underlain with a clay-lined barrier. The lined staging area was inspected on a daily basis to ensure the integrity of the barrier and cover system. Earthen berms were placed on the outside of the staging area to prevent soil and storm water migration from the stockpile during soil placement. The berms were periodically inspected to ensure the integrity and effectiveness of the erosion and storm water controls.

At the completion of the excavation activities, the stockpiled soils were loaded for transport to the Land & Lakes Landfill, Chicago, Illinois.



## **4.0 REMOVAL ACTION ACTIVITIES**

In accordance with the Workplan, the work associated with the excavation and restoration of lead-impacted residential soils included:

- Excavation of residential surface soils with total lead concentrations above 500 mg/kg to a maximum depth of two-ft below ground surface (bgs) in vegetable garden areas and one-ft bgs in all other areas;
- Placement of a visible permeable barrier at the base of any excavation which reached the maximum excavation depth and underlying soil lead concentrations that remained above 500 mg/kg;
- Transportation of excavated soils to the temporary soil staging area;
- Disposal of all excavated soil at a RCRA Subtitle D landfill; and
- Site restoration to pre-excavation conditions.

Excavation, confirmation sampling, soil characterization, disposal, and restoration activities are described in detail in the following sections.

### **4.1 EXCAVATION OF SOILS**

Due to the limited areal extent and sensitivity of the isolated areas slated for removal, soils that exceeded the cleanup goals were excavated using conventional construction equipment (i.e., mini-excavators) and hand tools (i.e., shovels) until the cleanup objectives were met or the maximum excavation depth of soils was reached. In areas that had an abundance of tree roots, excavations were terminated at the dripline prior to reaching either the maximum excavation depth and/or the cleanup criteria in order to prevent damage to the tree. Excavation depths terminated at the dripline and their locations are identified in Table 1.

Based on existing analytical results, an initial removal of the upper six inches of soil was conducted and the base of the excavation screened using the XRF instrument. Vertical excavation continued based on the XRF measurements until the approved risk-based criterion was achieved or the maximum excavation depth was reached, whichever came first. When the cleanup goals were determined to be met, excavation was terminated and confirmatory soil samples collected.

Excavated soils were placed directly into a four-sided bed of a clean dump truck for transfer to the staging area. All dump trucks transporting impacted soil to the staging area were equipped with tarps to prevent spills of impacted soil during transport. The trucks traveled from the properties to the staging area via established truck routes that were determined on a daily basis during the morning safety meeting. The routes were routinely monitored for the presence of tracked

material.

The soils were transferred to the staging area for Toxicity Characteristic Leaching Procedure (TCLP) testing to ensure the waste was not RCRA hazardous prior to off-Site disposal at the licensed, RCRA Subtitle D disposal facility.

Approximately 1,400 tons (1,100 cubic yards) of soil was excavated by ENTACT throughout the RA. Table 1 summarizes properties where removal activities occurred and depths of excavations.

## **4.2 CONFIRMATION SAMPLING**

Preparation of the composite surface samples was performed in accordance with the approved Workplan. Three-part to five-part composite samples were collected based on the areal extent of the excavation. For each composite sample collected, the aliquots were collected using a stainless-steel trowel, placed into a clean Ziploc<sup>®</sup> bag and homogenized, then transferred to clean laboratory-supplied sample jars. The sample jars were then labeled and packaged using standard sampling protocol and submitted to Great Lakes Analytical, Buffalo Grove, Illinois, for analysis of total lead using Method 6010B. The analytical results are summarized in Table 2 with the complete laboratory analytical reports included in Appendix B.

Concurrent with soil sampling activities, ENTACT prepared property diagrams to document property dimensions, sample collection locations and existing structures such as houses, sheds, garages, concrete, landscaping, etc. If the sampling activities resulted in areas of properties with removal action level exceedances, the property diagrams were updated to define the removal action areas.

## **4.3 WASTE CHARACTERIZATION SAMPLING**

Excavated soil from residential yards was transported to the staging area and stockpiled for TCLP testing prior to off-Site disposal. The stockpile was covered at the end of the working day or during inclement weather in accordance with the approved Workplan.

On December 8, 21, and 23, 2004, four five-part composite lead profile samples (LPS) and one duplicate (DUP) LPS sample (LPS.001, LPS.001.DUP, LPS.002, LPS.003 and LPS.004) were collected from the stockpile and analyzed for TCLP lead by USEPA Methods 1311 and 6010B. Analytical results indicated that the waste was nonhazardous with all leachable lead concentrations below the 5.0 mg/L RCRA hazardous TCLP criterion.

Table 3 summarizes the waste LPS laboratory results, and complete analytical reports are included in Appendix B.

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#### **4.4 TRANSPORTATION AND DISPOSAL**

The soils released for off-Site disposal were transported to the permitted disposal facility in trucks operated by licensed carriers. The loading of these trucks was performed in a manner that avoided spillage of the material en route to the disposal facility. The proposed Site logistics for managing truck traffic include establishing a haul route for incoming and outgoing truck traffic to the Site. The appropriate documentation (i.e., waste manifests) accompanied each load of soils to the appropriate disposal facility.

The transportation vehicles entered the Site at the entrance/exit located along Ashland Avenue. Transport vehicles proceeded to the load-out area where waste materials were loaded into the tandem trucks with loaders and trackhoes. Loading of trucks was not performed during heavy rain events. Upon the completion of load-out activities, vehicles were dry decontaminated, inspected and manifested, as necessary. Dry decontamination procedures were used for all vehicles that traveled over contaminated materials prior to leaving the Site. Prior to leaving the Site, transport vehicles were securely covered with a suitable tarpaulin. Tailgate locks were inspected to ensure that they were secure and would prevent the release of waste material from the vehicle during transportation. Licensed transportation contractors were used to haul the waste streams to the appropriate off-Site disposal landfill.

#### **4.5 PROPERTY RESTORATION**

The diagrams and pre-removal assessment forms completed prior to soil removal activities were used to guide the restoration activities and ensure they were performed in accordance with the conditions agreed upon by ENTACT and the owner.

After excavation and confirmatory soil sampling was complete, the property excavations were backfilled with clean imported soil and graded to pre-excavation conditions. Following backfilling and grading, properties were sodded.

Imported topsoil used for backfill was sampled at a frequency of one sample per 1,000 cubic yards and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pH, polychlorinated biphenyls (PCBs), organic carbon ( $f_{oc}$ ), Target Analyte List (TAL) Total Metals, herbicides and pesticides as required in the Workplan. Analytical results were compared to the Illinois Tiered Approach to Corrective Action Objectives (TACO) risk-based residential criteria. Table 4 summarizes backfill laboratory results, and the laboratory reports are provided in Appendix B.

Fences, walkways, driveways, and other structures removed or damaged during removal activities were replaced after the completion of final grading. At the completion of restoration activities, the property was photographed to document the post-restoration conditions.

#### **4.6 DEMOBILIZATION**

Decontamination of excavation equipment consisted of minimizing the potential for tracking residual soil or mud between excavation areas. Residual material on excavation equipment buckets, tires or tracks was manually removed using dry decontamination procedures prior to leaving the work area. This procedure included brushing and scraping the vehicle and equipment tires, tracks and buckets with stiff brushes, shovels and hoes to remove soil. The goal of the decontamination procedure was to remove the soil from the tires and buckets.

Upon the completion of all Site activities, all temporary construction facilities and utilities were removed or disconnected. All trash, debris, and extra soil were removed from the Site and the temporary fence removed.

## **5.0 QUALITY CONTROL (QC) PROCEDURES**

### **5.1 FIELD QC SAMPLES**

Field QC procedures involved sample tracking and documentation, collection of field duplicates and field instrument calibration.

Field duplicate samples were collected as part of the field QC procedures for soil characterization samples. Field duplicate samples were collected at a rate of one sample for every ten investigative confirmation samples collected. At each designated sample location where a field duplicate was designated, an extra volume of material was collected using the sampling methodology described in the Workplan. These samples were identified by a “DUP” preceded by the identification number of the sample. A comparison of the results indicated that the sample and sample duplicate results were all within an acceptable order of magnitude for a heterogeneous material. The field duplicate results and corresponding laboratory analytical results are presented in Table 2. Laboratory analytical reports are provided Appendix B.

Samples were collected in the field with disposable equipment. Field samples were mixed in clean Ziploc® bags to achieve a homogeneous sample before being put in sample jars; therefore no rinsate blanks were collected.

### **5.2 XRF INSTRUMENT CALIBRATION**

The XRF Analyzer used during this project required regular calibration. The XRF was calibrated with the manufacturer’s standards as discussed in the Workplan. Instrument calibration was maintained in the XRF sampling journal. Records produced were reviewed, maintained and filed by the field operators. All instruments and equipment used during the removal action was inspected regularly to ensure that the items met and performed to manufacturer’s specifications and project specifications. All field equipment was calibrated in accordance with the specific field Standard Operating Procedures.

### **5.3 SAMPLE QC PROCEDURES**

Sample identification documents were carefully prepared to maintain identification and to control sample disposition. Components of the field documentation and custody procedures included the use of logbooks, sample labels and Chain-of-Custody (COC) forms. The field sampler was responsible for the care and custody of the samples until they were properly transferred.

A COC form accompanied every shipment of samples to the laboratory to establish the documentation necessary to trace sample possession from the time of sample collection through sample analysis. For shipping purposes, samples were stored and packaged in such a manner as to prevent damage or breakage during shipment or transport. Samples were placed into suitable containers, labeled and the transport cooler sealed in such a manner that tampering with the seal would be obvious. A copy of the COC form accompanied the samples.

When a COC form was filled out, one page of the three-part form was retained and placed in the project files. The other part of the form accompanied the samples to the laboratory. The laboratory retained a copy of the form for its records and returned a copy of the original to ENTACT with the final data report. Copies of the COC forms are included in Appendix B.

#### **5.4 LABORATORY QC PROCEDURES**

At the time of arrival at the laboratory, coolers were inspected for evidence of damage. Information on the COC was verified and recorded as to agreement or non-agreement. If there was an apparent document non-agreement, the problem was recorded and the quality assurance/quality control (QA/QC) Officer notified. The samples were then marked or labeled with laboratory sample numbers.

Great Lakes Analytical Laboratory in Buffalo Grove, Illinois, was utilized to analyze all soil samples collected from the Site. The laboratory QA/QC included one matrix spike (MS) and one matrix spike duplicate (MSD) for every set of samples received.

A comparison of the results indicated that the laboratory spike and duplicate spike sample results were all within an acceptable order of magnitude of the investigative sample at all locations, as determined by the relative percent difference (RPD). Based on a review of the analytical data packages, the data have been determined to be valid and acceptable. Laboratory QC results on continuing calibration verification, laboratory control standards, holding times and MS/MSD results have been archived along with all the Site documentation in a secure location within the ENTACT Westmont, Illinois, office.

## **6.0 PROJECT MANAGEMENT AND PERSONNEL**

The project team and associated responsibilities for the overall implementation of the off-Site sampling and removal activities are described in the following sections.

### **6.1 PROJECT MANAGEMENT TEAM**

#### ***USEPA Region 5 Remedial Project Manager, Brad Bradley***

The USEPA Remedial Project Manager (PM) had the overall responsibility for all phases of the project. The PM provided regulatory oversight, reviewed and approved plans and reports, and conducted periodic Site inspections to evaluate work and progress.

#### ***NL Industries, Inc. Project Coordinator, Terry Casey, Efficasey Environmental, LLC***

The primary responsibility of the Project Coordinator (PC) was to ensure proper coordination and communication among the various project stakeholders. These stakeholders include the USEPA, NL and ENTACT. The PC was responsible for administration of all the Respondents actions. To the greatest extent possible, the PC was to be readily available during Site work.

#### ***Project Coordinator, Rich Wood, ENTACT***

The PC acted as the liaison between ENTACT, USEPA, and NL. The PC was responsible for preparing and submitting monthly progress reports summarizing the remedial activities completed during the previous month, problems encountered and corrective action taken, the overall progress of the work, and the tasks expected to be completed in the coming month.

#### ***Corporate Health and Safety Officer, Don Self, ENTACT***

The Corporate Health and Safety Officer (CHSO) coordinated and provided guidance for the health and safety issues at the Site. The CHSO prepared the Site-specific HASP, was responsible for conducting the Health and Safety Orientation meeting before work was implemented, reviewed weekly health and safety updates from the Site, and conducted health and safety audits throughout the duration of the project.

***Field Project Manager, Allen Thompson, ENTACT***

The Field Project Manager (FPM) was responsible for the day-to-day implementation of the sampling and removal activities. The FPM worked with the PC to ensure activities were implemented and completed in accordance with the Workplan.

***Regulatory/Technical Compliance Officer, Patricia Thomson, ENTACT***

The Regulatory/Technical Compliance Officer was responsible for reviewing analytical data as it was received from the field and laboratory; and for conducting periodic surveys during the project to review field documentation procedures, sampling procedures and sampling data. In addition, the Regulatory/Technical Compliance Officer provided regulatory and technical support to ensure the sampling and removal activities were implemented and completed in accordance with the Workplan, Federal, State, and local regulations.

***Quality Assurance/Quality Control Officer, Rhonda Regester, ENTACT***

The QA/QC Officer was responsible for ensuring all sampling and analytical procedures were followed in accordance with the Workplan. The QA/QC Officer provided guidance to the QA/QC technicians, tracked analytical results, maintained the master database, and reported the data to the PC, FPM and the Regulatory/Technical Compliance Officer.

## **6.2 PROJECT PERSONNEL**

***Project Field Team***

The Project Field Team consisted of equipment operators and hazardous materials technicians responsible for soil sampling, soil excavation, restoration activities and management of the repository. All Project Field Team members completed 40-hours of Occupational Safety and Health Act (OSHA) Hazardous Waste Operations (HAZWOPER) training and 8-hour refresher courses. All team members were experienced professionals with the technical competence required to effectively and efficiently perform the required work.

***Subcontractors***

During the course of the project, ENTACT utilized two local subcontractors to perform various activities as necessary to successfully complete the project. International Hauling & Excavating, Inc. provided trucking services and supplied backfill, and JVI, Inc. provided union operators and laborers at the site.



## **7.0 HEALTH AND SAFETY**

### **7.1 SAFETY MEETINGS**

The ENTACT CHSO conducted a safety orientation meeting attended by the project team during the project mobilization phase. Topics discussed included general construction safety issues, Site-specific health and safety concerns and the level of personal protection equipment (PPE) to be worn for the project.

Daily safety meetings were conducted each morning before work began. A different safety topic was discussed each day. A record of safety topics and meeting attendees was maintained.

### **7.2 PERSONAL PROTECTIVE EQUIPMENT**

During the initial soil removal activities, ENTACT personnel wore Level D PPE consisting of hardhats, safety glasses, nitrile gloves, reflective vests, and steel-toed boots. Hearing protection was required when noise levels were in excess of the 85 decibels (dBA) time-weighted average. Used, disposable PPE was disposed of off-Site along with the excavated material to the Land & Lakes Landfill, Chicago, Illinois.

## **8.0 PROJECT SCHEDULE AND REPORTING**

### **8.1 PROJECT REPORTING**

Project reporting was done in accordance with the requirements of the Workplan. Reports were submitted to the appropriate parties on a weekly and monthly basis.

### **8.2 WEEKLY REPORTS**

Weekly reports were prepared by ENTACT and submitted to the PC to detail the progress made during the reporting period. Information reported included, work performed, anticipated activities for the upcoming week, changes in personnel, specific issues, and associated resolutions related to the project.

### **8.3 PROJECT RECORD KEEPING**

Detailed record keeping and storage was vital to the success of the project. QA/QC and project administration records generated during the project were kept in fireproof locked file cabinets in the ENTACT office trailer. Upon completion of the project, the project files and records were transferred to the ENTACT Westmont, Illinois, Office where they will be maintained for the required retention period.

## **9.0 REFERENCES**

Environmental Strategies Corporation (ESC), 2002, *Offsite Residential Properties Soil Excavation, Stabilization, and Disposal, Former Dutch Boy Site, Chicago, Illinois*, prepared on May 20, 2002

**Table 1**  
**ENTACT & Associates, LLC**  
**Excavation Locations and Depths**  
**NL Dutch Boy Site**  
**Chicago, Illinois**

Street	Address	Excavation	
		Location	Depth (in)
W. 118th St.	710	frontyard	dripline
	710	backyard	dripline
	751	frontyard	dripline
	751	backyard	dripline
W. 122nd St.	820	frontyard	dripline
	835	frontyard	dripline
		backyard	dripline
	853-55	frontyard	dripline
	853-55	backyard	dripline
	901	frontyard	12
Emerald Ave.	11816	frontyard	12
	11816	backyard	12
Green St.	12210	frontyard	6
	12210	backyard	dripline
	12223	frontyard	dripline
	12239	frontyard	dripline
Halsted St.	12105	backyard	dripline
Morgan St.	11827	frontyard	dripline
		backyard	12
Peoria St.	11820	frontyard	dripline
		backyard	12-frost
	11824	frontyard	dripline
		backyard	12-frost
	11828	frontyard	dripline
		backyard	12-frost
	11834	frontyard	dripline
		backyard	12-frost
	12227	frontyard	12
		backyard	12
Sangamon St.	11725	frontyard	dripline
		backyard	dripline
	11730	frontyard	dripline
		backyard	dripline
	11736	frontyard	dripline
		backyard	dripline
	11744	frontyard	dripline
		backyard	dripline
	11814	frontyard	dripline
		backyard	dripline
Union Ave.	11818	backyard	dripline
	11820	frontyard	12
	11820	backyard	dripline
	12024	backyard	dripline
	12046-48	backyard	12
<b>Analytical Data Used to Determine Course of Action at 708 118th Street (&lt;500 mg/kg)</b>			
W. 118th Street	708	frontyard	-
		backyard	-

**Table 2**  
**ENTACT & Associates, LLC**  
**Laboratory Results for Residential Confirmation Samples**  
**NL Dutch Boy Site**  
**Chicago, Illinois**

Street	Address	Sample Location	Sample ID	Sample Date	Total Lead (mg/kg)	Duplicate (mg/kg)	Excavation Depth (in)
W. 118th St.	710	frontyard	118710FY	12.16.04	826		dripline
	710	backyard	118710BY	12.16.04	482		dripline
	751	frontyard	118751FY	12.08.04	9		dripline
	751	backyard	118751BY	12.08.04	1,050		dripline
W. 122nd St.	820	frontyard	122820FY	12.16.04	430		dripline
	835	frontyard	122835FY	12.21.04	995		dripline
		backyard	122835BY	12.21.04	623		dripline
	853-55	frontyard	122853-55FY	12.16.04	1,040		dripline
	853-55	backyard	122853-55BY	12.16.04	8,080	3,290	dripline
	901	frontyard	122901FY	12.16.04	940		12
Emerald Ave.	11816	frontyard	E11816FY	12.08.04	447		12
	11816	backyard	E11816BY	12.08.04	486		12
Green St.	12210	frontyard	G12210FY	12.16.04	437		6
	12210	backyard	G12210BY	12.16.04	522		dripline
	12223	frontyard	G12223FY	1.11.05	5,180		dripline
	12239	frontyard	G12239FY	12.22.04	2,410		dripline
Halsted St.	12105	backyard	H12105BY	12.16.04	501		dripline
Morgan St.	11827	frontyard	M11827FY	12.21.04	494		dripline
		backyard	M11827BY	12.21.04	1,910		12
Peoria St.	11820	frontyard	P11820FY	12.27.04	906		dripline
		backyard	P11820BY	12.27.04	957		12-frost
	11824	frontyard	P11824FY	12.29.04	887		dripline
		backyard	P11824BY	12.28.04	824	834	12-frost
	11828	frontyard	P11828FY	12.29.04	857		dripline
		backyard	P11828BY	12.27.04	1,110		12-frost
	11834	frontyard	P11834FY	12.28.04	869		dripline
		backyard	P11834BY	12.27.04	846		12-frost
	12227	frontyard	P12227FY	1.11.05	2,180		12
		backyard	P12227BY	12.21.04	462		12
Sangamon St.	11725	frontyard	S11725FY	1.11.05	624		dripline
		backyard	S11725BY	12.21.04	741		dripline
	11730	frontyard	S11730FY	12.21.04	1,250		dripline
		backyard	S11730BY	12.21.04	2,140		dripline
	11736	frontyard	S11736FY	12.21.04	1,310		dripline
		backyard	S11736BY	12.21.04	824		dripline
	11744	frontyard	S11744FY	12.21.04	414		dripline
		backyard	S11744BY	12.21.04	354		dripline
	11814	frontyard	S11814FY	12.21.04	552	580	dripline
		backyard	S11814BY	12.21.04	827		dripline
Union Ave.	11818	backyard	U11818BY	12.16.04	846		dripline
	11820	frontyard	U11820FY	12.16.04	604		12
	11820	backyard	U11820BY	12.16.04	1,410		dripline
	12024	backyard	U12024BY	12.16.04	869		dripline
	12046-48	backyard	U12046-48BY	12.16.04	816		12
<b>Analytical Data to determine course of action at 708 118th Street (&lt;500 mg/kg)</b>							
W. 118th Street	708	frontyard	118708FY	1.3.05	333		
		backyard	118708BY	1.3.05	346		

mg/kg - milligram per kilogram  
in - inches

**Table 3**  
**ENTACT & Associates, LLC**  
**Laboratory Results for Profile Samples**  
**NL Dutch Boy Site**  
**Chicago, Illinois**

Sample ID	Sample Date	TCLP Lead (mg/L)
LPS.001	12.08.04	0.770
LPS.001.DUP	12.08.04	1.000
LPS.002	12.21.04	0.833
LPS.003	12.23.04	0.566
LPS.004	12.23.04	0.524

**Table 4**  
**ENTACT & Associates, LLC**  
**Backfill Laboratory Results**  
**NL Dutch Boy Site**  
**Chicago, Illinois**

Chemical Name		Sample ID	Exposure Route-Specific SROs			
		BF-001	Residential*		Construction Worker**	
		12/9/2004	ingestion	inhalation	ingestion	inhalation
SVOCs (mg/kg)						
Acenaphthene	b	<0.127	4700	NRO	120,000	NRO
Acenaphthylene		<0.127	NRO	NRO	NRO	NRO
Aniline		<0.127	NRO	NRO	NRO	NRO
Anthracene		<0.127	23,000	NRO	610,000.00	NRO
Benzoic Acid		<0.637	310,000	NRO	820,000.00	NRO
Benzo(a)anthracene	a	<0.127	0.9	NRO	170.00	NRO
Benzo(a)pyrene	a	<0.0738	0.09	NRO	17.00	NRO
Benzo(b)fluoranthene	a	<0.127	0.9	NRO	170.00	NRO
Benzo(g,h,i)perylene		<0.127	NRO	NRO	NRO	NRO
Benzo(k)fluoranthene	a	<0.127	9.00	NRO	1,700.00	NRO
Benzyl alcohol		<0.127	NRO	NRO	NRO	NRO
Bis(2-chloroethoxy)methane		<0.127	NRO	NRO	NRO	NRO
Bis(2-chloroethyl)ether	a	<0.127	0.6	0.2	75.00	0.66
Bis(2-chloroisopropyl)ether		<0.127	NRO	NRO	NRO	NRO
Bis(2-ethylhexyl)phthalate	a	<0.42	46	31,000	4,100.00	31,000.00
4-Bromophenyl phenyl ether		<0.127	NRO	NRO	NRO	NRO
Butyl benzyl phthalate	b	<0.42	16,000	930	410,000.00	930.00
Carbazole	a	<0.127	32	NRO	6200	NRO
4-Chloroaniline		<0.127	310	NRO	820.00	NRO
4-Chloro-3-methylphenol		<0.127	NRO	NRO	NRO	NRO
2-Chloronaphthalene		<0.127	NRO	NRO	NRO	NRO
2-Chlorophenol	b	<0.127	390	53,000	10,000.00	53,000.00
4-Chlorophenyl phenyl ether		<0.127	NRO	NRO	NRO	NRO
Chrysene	a	<0.127	88	NRO	17,000.00	NRO
Dibenzo(a,h)anthracene	a	<0.0738	0.09	NRO	17.00	NRO
Dibenzofuran		<0.127	NRO	NRO	NRO	NRO
1,2-Dichlorobenzene		<0.127	7000	560	18,000.00	310.00
1,3-Dichlorobenzene		<0.127	NRO	NRO	NRO	NRO
1,4-Dichlorobenzene		<0.127	NRO	11,000	NRO	340.00
3,3'-Dichlorobenzidine	a	<0.637	1.00	NRO	280.00	NRO
2,4-Dichlorophenol	b	<0.127	230	NRO	610.00	NRO
Diethyl phthalate		<0.127	63,000	NRO	1,000,000.00	2,000.00
2,4-Dimethylphenol		<0.127	1600	NRO	41,000.00	NRO
Dimethyl phthalate		<0.127	NRO	NRO	NRO	NRO
Di-N-butyl phthalate		<0.42	7800	2300	200,000.00	2,300.00
4,6-Dinitro-2-methylphenol		<0.637	NRO	NRO	NRO	NRO
2,4-Dinitrophenol		<0.637	160	NRO	410.00	NRO
2,4-Dinitrotoluene	a	<0.127	0.9	NRO	180.00	NRO
2,6-Dinitrotoluene	a	<0.127	0.9	NRO	180.00	NRO
Di-N-octyl phthalate	b	<0.42	1600	10,000	NRO	NRO
Fluoranthene	b	<0.127	3100	NRO	82,000.00	NRO
Fluorene	b	<0.127	3100	NRO	82,000.00	NRO
Hexachlorobenzene	a	<0.127	0.4	1.00	78.00	2.60
Hexachlorobutadiene		<0.127	NRO	NRO	NRO	NRO
Hexachlorocyclopentadiene	b	<0.127	550	10	14,000.00	1.10
Hexachloroethane		<0.127	78	NRO	2,000.00	NRO
Indeno(1,2,3-cd)pyrene	a	<0.127	0.9	NRO	170.00	NRO
Isophorone		<0.127	15,600	4600	410,000.00	4,600.00
2-Methylnaphthalene		<0.127	NRO	NRO	NRO	NRO
2-Methylphenol (o-cresol)	b	<0.127	3900	NRO	100,000	NRO
3 & 4-Methylphenol (m & p-cresol)		<0.127	NRO	NRO	NRO	NRO

**Table 4**  
**ENTACT & Associates, LLC**  
**Backfill Laboratory Results**  
**NL Dutch Boy Site**  
**Chicago, Illinois**

Chemical Name		Sample ID	Exposure Route-Specific SROs			
		BF-001	Residential*		Construction Worker**	
		12/9/2004	ingestion	inhalation	ingestion	inhalation
Naphthalene	b	<0.127	1600	170	4,100.00	1.80
2-Nitroaniline		<0.637	NRO	NRO	NRO	NRO
3-Nitroaniline		<0.637	NRO	NRO	NRO	NRO
4-Nitroaniline		<0.637	NRO	NRO	NRO	NRO
Nitrobenzene	b	<0.0891	39	92	1,000.00	9.40
2-Nitrophenol		<0.127	NRO	NRO	NRO	NRO
SVOCs (mg/kg)						
4-Nitrophenol		<0.637	NRO	NRO	NRO	NRO
N-Nitrosodi-N-propylamine	a	<0.127	0.09	NRO	18.00	NRO
N-Nitrosodiphenylamine	a	<0.127	130	NRO	25,000.00	NRO
Pentachlorophenol	a	<0.637	3.00	NRO	520.00	NRO
Phenanthrene		<0.127	NRO	NRO	NRO	NRO
Phenol	b	<0.127	47,000	NRO	120,000.00	NRO
Pyrene	b	<0.127	2300	NRO	61,000.00	NRO
1,2,4-Trichlorobenzene	b	<0.127	780	3200	2,000.00	920.00
2,4,5-Trichlorophenol	b	<0.637	7800	NRO	200,000.00	NRO
2,4,6-Trichlorophenol	a	<0.127	58	200	11,000.00	540.00
VOCs (mg/kg)						
Acetone	b	0.0857	7800	100,000	200,000	100,000
Benzene	a	<0.00637	12	0.8	2,300	2.2
Bromodichloromethane	a	<0.00637	10	3000	2,000	3,000
Bromoform	a	<0.00637	81	53	16,000	140
Bromomethane	b	<0.00637	110	10	1,000	3.9
2-Butanone (MEK)		<0.0127	NRO	NRO	NRO	NRO
Carbon disulfide	b	<0.00637	7800	720	20,000	9.0
Carbon Tetrachloride	a	<0.00637	5.00	0.300	410	0.90
Chlorobenzene	b	<0.00637	1600	130	4,100	1.3
Chlorodibromomethane		<0.00637	1600	1300	41,000	1,300
Chloroethane		<0.00637	NRO	NRO	NRO	NRO
Chloroform	a	<0.00637	100	0.300	2,000	0.76
Chloromethane		<0.00637	NRO	NRO	NRO	NRO
1,1-Dichloroethane	b	<0.00637	7800	1300	200,000	130
1,2-Dichloroethane	a	<0.00637	7.00	0.400	1,400	0.99
1,1-Dichloroethene	b	<0.00637	700	1500	1,800	300
cis-1,2-Dichloroethene	b	<0.00637	780	1200	20,000	1,200
trans-1,2-Dichloroethene	b	<0.00637	1600	3100	NRO	NRO
1,2-Dichloropropane	a	<0.00637	9.00	15	1,800	0.50
1,3-Dichloropropene (cis & trans)	a	<0.00382	6.4	1.1	1,200	0.39
Ethylbenzene	b	<0.00637	7800	400	20,000	58
2-Hexanone		<0.0127	NRO	NRO	NRO	NRO
Methylene chloride	a	<0.00637	85	13	12,000	34
4-Methyl-2-Pentanone (MIBK)		<0.0127	NRO	NRO	NRO	NRO
Methyl tert-butyl ether	b	<0.00637	780	8800	2000	140
Styrene	b	<0.00637	16,000	1500	41,000	430
1,1,2,2-Tetrachloroethane		<0.00637	NRO	NRO	NRO	NRO
Tetrachloroethene	a	<0.00637	12	11	2,400	28
Toluene	b	<0.00637	16,000	650	410,000	42
1,1,1-Trichloroethane		<0.00637	NRO	1200	NRO	1,200
1,1,2-Trichloroethane		<0.00637	310	1800	8,200	1,800
Trichloroethene	a	<0.00637	58	5	1,200	12
Trichlorofluoromethane		<0.00637	NRO	NRO	NRO	NRO
Vinyl Acetate	b	<0.0127	78,000	1000	200,000	10.0
Vinyl chloride	a	<0.00637	0.46	0.28	170	1.1
Xylenes (total)	b	<0.0127	160,000	320	410,000	320



**Table 4**  
**ENTACT & Associates, LLC**  
**Backfill Laboratory Results**  
**NL Dutch Boy Site**  
**Chicago, Illinois**

Chemical Name		Sample ID	Exposure Route-Specific SROs			
		BF-001	Residential*		Construction Worker**	
		12/9/2004	ingestion	inhalation	ingestion	inhalation
Metals (mg/kg)						
Aluminum		13400	NRO	NRO	NRO	NRO
Antimony	b	<6.37	31	NRO	82	NRO
Arsenic	a	<3.18	NRO	750	61	25,000
Barium	b	76	5500	690,000	14,000	870,000
Beryllium	b	1.27	160	1300	410	44,000
Cadmium	b	<0.637	78	1800	200	59,000
Calcium		5000	NRO	NRO	NRO	NRO
Chromium		16.7	230	270	4,100	690
Cobalt		6.35	4700	NRO	12,000	NRO
Copper		14.5	2900	NRO	8,200	NRO
Mercury	b	<0.0509	23	10	61	52,000
Iron		17000	NRO	NRO	NRO	NRO
Lead		19.1	400	NRO	400	NRO
Magnesium		4290	NRO	NRO	NRO	NRO
Manganese	b	168	3700	69,000	9,600	8,700
Nickel	a	18	1600	13,000	4,100	440,000
Potassium		1090	NRO	NRO	NRO	NRO
Selenium		<3.18	390	NRO	1,000	NRO
Silver		<3.18	390	NRO	1,000	NRO
Sodium		71.9	NRO	NRO	NRO	NRO
Thallium		<6.37	6.3	NRO	160	NRO
Vanadium		25.9	550	NRO	1,400	NRO
Zinc	b	52.7	23,000	NRO	61,000	NRO
PCBs (mg/kg)						
PCB-1016		<0.0318	1.0	NRO	1.0	NRO
PCB-1221		<0.0318	1.0	NRO	1.0	NRO
PCB-1232		<0.0318	1.0	NRO	1.0	NRO
PCB-1242		<0.0318	1.0	NRO	1.0	NRO
PCB-1248		<0.0318	1.0	NRO	1.0	NRO
PCB-1254		<0.0318	1.0	NRO	1.0	NRO
PCB-1260		<0.0318	1.0	NRO	1.0	NRO
General Chemistry (mg/kg)						
Organic Carbon		40100	NRO	NRO	NRO	NRO

\* Illinois EPA Tier 1 Soil Remediation Objectives (SROs) for Residential Properties; 35 IAC 742, Appendix B, Tab

\*\* Illinois EPA Tier 1 Soil Remediation Objectives (SROs) for Industrial/Commercial Properties; 35 IAC 742, Appe

All results in parts per million (**mg/Kg**) unless noted otherwise

NRO = No Remediation Objective

a = Carcinogenic b = Noncarcinogenic

Results in **Bold/Shaded** indicate concentrations exceeding most stringent Tier 1 SROs

Note: ClassI/ClassII SROs for Total Metals & Inorganics can be obtained from 35 IAC 742, Appendix B, Tables C

**Figure 1**  
**Former Dutch Boy Site and Surrounding Area**



**APPENDIX A**

**Site Photographs**





PHOTOGRAPH:	1	PHOTOGRAPHER:	Rhonda Regester
DATE/TIME:	21-Dec-04	10:49 AM	
PROJECT:	NL Dutch Boy - Chicago		
SUBJECT:	Pre-excavation set up at 835 W 122nd St		



PHOTOGRAPH:	2	PHOTOGRAPHER:	Rhonda Regester
DATE/TIME:	21-Dec-04	10:49 AM	
PROJECT:	NL Dutch Boy - Chicago		
SUBJECT:	Demarcation barrier laid down after excavation at 835 W. 122nd St		





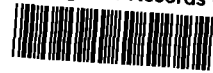
PHOTOGRAPH:	3	PHOTOGRAPHER:	Rhonda Regester
DATE/TIME:	21-Dec-04	10:50 AM	
PROJECT:			
SUBJECT:	Backfill covering demarcation barrier at 835 W. 122nd St		



PHOTOGRAPH:	4	PHOTOGRAPHER:	Rhonda Regester
DATE/TIME:	26-Jan-05	1:41 PM	
PROJECT:			
SUBJECT:	Laying sod after completion of remediation activities at 835 W 122nd St		

## **APPENDIX B**

### **Laboratory Analytical Reports and Chain-of-Custody forms**



04 January 2005

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 01/03/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style.

Andy Johnson  
Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Regester	Reported: 01/04/05 14:12
--	---	-----------------------------

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
118708FY	B501013-01	Soil	01/03/05 10:20	01/03/05 14:15
118708BY	B501013-02	Soil	01/03/05 10:29	01/03/05 14:15

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Andy Johnson*

Andy Johnson, Project Manager



Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Register	Reported: 01/04/05 14:12
--	---	-----------------------------

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>118708FY (B501013-01) Soil    Sampled: 01/03/05 10:20    Received: 01/03/05 14:15</b>									
<b>Lead</b>	<b>333</b>	6.78	mg/kg dry	1	5010017	01/03/05	01/04/05	EPA 6010B	
<b>118708BY (B501013-02) Soil    Sampled: 01/03/05 10:29    Received: 01/03/05 14:15</b>									
<b>Lead</b>	<b>346</b>	6.59	mg/kg dry	1	5010017	01/03/05	01/04/05	EPA 6010B	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Andy Johnson*

Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
01/04/05 14:12

### Percent Solids

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>118708FY (B501013-01) Soil    Sampled: 01/03/05 10:20    Received: 01/03/05 14:15</b>									
% Solids	73.8	0.200	%	1	5010030	01/04/05	01/04/05	EPA 5035 7.5	
<b>118708BY (B501013-02) Soil    Sampled: 01/03/05 10:29    Received: 01/03/05 14:15</b>									
% Solids	75.9	0.200	%	1	5010030	01/04/05	01/04/05	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Regester	Reported: 01/04/05 14:12
--	---	-----------------------------

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5010017 - EPA 3050B</b>										
<b>Blank (5010017-BLK1)</b>				Prepared: 01/03/05 Analyzed: 01/04/05						
Lead	ND	5.00	mg/kg wet							
<b>LCS (5010017-BS1)</b>				Prepared: 01/03/05 Analyzed: 01/04/05						
Lead	185	5.00	mg/kg wet	200		92.5	82.5-110			
<b>Matrix Spike (5010017-MS1)</b>				Source: B501013-01 Prepared: 01/03/05 Analyzed: 01/04/05						
Lead	501	6.78	mg/kg dry	274	333	61.3	51.5-110			
<b>Matrix Spike Dup (5010017-MSD1)</b>				Source: B501013-01 Prepared: 01/03/05 Analyzed: 01/04/05						
Lead	495	6.78	mg/kg dry	274	333	59.1	51.5-110	1.20	34.8	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Andy Johnson*

Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

**Reported:**  
01/04/05 14:12

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 5010030 - General Prep**

**Blank (5010030-BLK1)**

Prepared & Analyzed: 01/04/05

% Solids ND 0.200 %

**Duplicate (5010030-DUP1)**

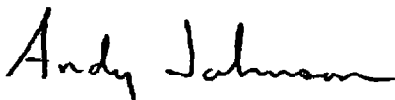
**Source: B501013-01**

Prepared & Analyzed: 01/04/05

% Solids 73.6 0.200 % 73.8 0.271 20

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/04/05 14:12

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
L This quality control measurement is below the laboratory established limit.  
H This quality control measurement is above the laboratory established limit.  
^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.  
^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160  
Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261  
Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001  
Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330  
Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

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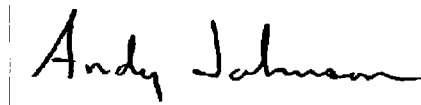
09 December 2004

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 12/08/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style. A vertical line is positioned to the left of the signature.

Andy Johnson  
Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/09/04 17:57

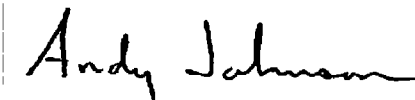
### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E11816FY Front Yard	B412139-01	Soil	12/08/04 10:20	12/08/04 14:55
E11816BY Back Yard	B412139-02	Soil	12/08/04 10:24	12/08/04 14:55
118751BY Back Yard	B412139-03	Soil	12/08/04 10:27	12/08/04 14:55
118751FY Front Yard	B412139-04	Soil	12/08/04 10:30	12/08/04 14:55
LPS.001 Profile Sample	B412139-05	Soil	12/08/04 13:27	12/08/04 14:55
LPS.001Dup Duplicate Profile Sample	B412139-06	Soil	12/08/04 13:27	12/08/04 14:55

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/09/04 17:57

**TCLP Metals by EPA 1311/6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>LPS.001 Profile Sample (B412139-05) Soil    Sampled: 12/08/04 13:27    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>0.770</b>	0.120	mg/l	1	4120243	12/09/04	12/09/04	EPA 7421	QC
<b>LPS.001Dup Duplicate Profile Sample (B412139-06) Soil    Sampled: 12/08/04 13:27    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>1.00</b>	0.120	mg/l	1	4120243	12/09/04	12/09/04	EPA 7421	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/09/04 17:57

**TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120243 - EPA 3010A TCLP</b>										
<b>Blank (4120243-BLK1)</b>				Prepared & Analyzed: 12/09/04						
Lead	ND	0.00500	mg/l							
<b>LCS (4120243-BS1)</b>				Prepared & Analyzed: 12/09/04						
Lead	0.0215	0.00500	mg/l	0.0300		71.7	70.8-140			
<b>Matrix Spike (4120243-MS1)</b>				<b>Source: B412139-05</b>		Prepared & Analyzed: 12/09/04				
Lead	0.738	0.120	mg/l	0.0300	0.770	NR	43.1-162			L
<b>Matrix Spike Dup (4120243-MSD1)</b>				<b>Source: B412139-05</b>		Prepared & Analyzed: 12/09/04				
Lead	0.764	0.120	mg/l	0.0300	0.770	NR	43.1-162	3.46	29.2	L

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Regester	Reported: 12/09/04 17:57
--	---	-----------------------------

### Notes and Definitions

- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- \* The laboratory is not NELAP accredited for this analyte.
- \*\* The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160  
 Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261  
 Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #1L001  
 Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330  
 Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

14 December 2004

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 12/08/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style. The first name "Andy" is written with a large, prominent 'A' and 'y'. The last name "Johnson" is written in a similar cursive style, with the 'J' being particularly large and the 'n' having a long, sweeping tail.

Andy Johnson  
Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

**Reported:**  
12/14/04 17:03

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E11816FY Front Yard	B412139-01	Soil	12/08/04 10:20	12/08/04 14:55
E11816BY Back Yard	B412139-02	Soil	12/08/04 10:24	12/08/04 14:55
118751BY Back Yard	B412139-03	Soil	12/08/04 10:27	12/08/04 14:55
118751FY Front Yard	B412139-04	Soil	12/08/04 10:30	12/08/04 14:55
LPS.001 Profile Sample	B412139-05	Soil	12/08/04 13:27	12/08/04 14:55
LPS.001Dup Duplicate Profile Sample	B412139-06	Soil	12/08/04 13:27	12/08/04 14:55

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/14/04 17:03

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>E11816FY Front Yard (B412139-01) Soil    Sampled: 12/08/04 10:20    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>447</b>	6.37	mg/kg dry	1	4120325	12/13/04	12/14/04	EPA 6010B	
<b>E11816BY Back Yard (B412139-02) Soil    Sampled: 12/08/04 10:24    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>486</b>	6.29	mg/kg dry	1	4120325	12/13/04	12/14/04	EPA 6010B	
<b>118751BY Back Yard (B412139-03) Soil    Sampled: 12/08/04 10:27    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>1050</b>	70.4	mg/kg dry	11	4120325	12/13/04	12/14/04	EPA 6010B	
<b>118751FY Front Yard (B412139-04) Soil    Sampled: 12/08/04 10:30    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>8.62</b>	6.30	mg/kg dry	1	4120325	12/13/04	12/14/04	EPA 6010B	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester


**Reported:**  
12/14/04 17:03

**TCLP Metals by EPA 1311/6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>LPS.001 Profile Sample (B412139-05) Soil    Sampled: 12/08/04 13:27    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>0.770</b>	0.120	mg/l	1	4120243	12/09/04	12/09/04	EPA 7421	QC
<b>LPS.001Dup Duplicate Profile Sample (B412139-06) Soil    Sampled: 12/08/04 13:27    Received: 12/08/04 14:55</b>									
<b>Lead</b>	<b>1.00</b>	0.120	mg/l	1	4120243	12/09/04	12/09/04	EPA 7421	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/14/04 17:03

### Percent Solids

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>E11816FY Front Yard (B412139-01) Soil    Sampled: 12/08/04 10:20    Received: 12/08/04 14:55</b>									
% Solids	78.5	0.200	%	1	4120225	12/08/04	12/10/04	EPA 5035 7.5	
<b>E11816BY Back Yard (B412139-02) Soil    Sampled: 12/08/04 10:24    Received: 12/08/04 14:55</b>									
% Solids	79.5	0.200	%	1	4120225	12/08/04	12/10/04	EPA 5035 7.5	
<b>118751BY Back Yard (B412139-03) Soil    Sampled: 12/08/04 10:27    Received: 12/08/04 14:55</b>									
% Solids	78.2	0.200	%	1	4120225	12/08/04	12/10/04	EPA 5035 7.5	
<b>118751FY Front Yard (B412139-04) Soil    Sampled: 12/08/04 10:30    Received: 12/08/04 14:55</b>									
% Solids	79.4	0.200	%	1	4120225	12/08/04	12/10/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Regester	Reported: 12/14/04 17:03
--	---	-----------------------------

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120325 - EPA 3050B**

**Blank (4120325-BLK1)**

Prepared: 12/13/04 Analyzed: 12/14/04

Lead	ND	5.00	mg/kg wet							
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**LCS (4120325-BS1)**

Prepared: 12/13/04 Analyzed: 12/14/04

Lead	191	5.00	mg/kg wet	200		95.5	82.5-110			
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**Matrix Spike (4120325-MS1)**

Source: B412147-01

Prepared: 12/13/04 Analyzed: 12/14/04

Lead	408	5.84	mg/kg dry	236	174	99.2	51.5-110			
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**Matrix Spike Dup (4120325-MSD1)**

Source: B412147-01

Prepared: 12/13/04 Analyzed: 12/14/04

Lead	397	5.84	mg/kg dry	231	174	96.5	51.5-110	2.73	34.8	
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Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
12/14/04 17:03

**TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120243 - EPA 3010A TCLP</b>										
<b>Blank (4120243-BLK1)</b>				Prepared & Analyzed: 12/09/04						
Lead	ND	0.00500	mg/l							
<b>LCS (4120243-BS1)</b>				Prepared & Analyzed: 12/09/04						
Lead	0.0215	0.00500	mg/l	0.0300		71.7	70.8-140			
<b>Matrix Spike (4120243-MS1)</b>				Source: B412139-05 Prepared & Analyzed: 12/09/04						
Lead	0.738	0.120	mg/l	0.0300	0.770	NR	43.1-162			L
<b>Matrix Spike Dup (4120243-MSD1)</b>				Source: B412139-05 Prepared & Analyzed: 12/09/04						
Lead	0.764	0.120	mg/l	0.0300	0.770	NR	43.1-162	3.46	29.2	L

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Register	Reported: 12/14/04 17:03
--	---	-----------------------------

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120225 - General Prep</b>									
<b>Blank (4120225-BLK1)</b>	Prepared: 12/08/04 Analyzed: 12/10/04								
% Solids	ND	0.200	%						
<b>Blank (4120225-BLK2)</b>	Prepared: 12/08/04 Analyzed: 12/10/04								
% Solids	ND	0.200	%						
<b>Blank (4120225-BLK3)</b>	Prepared: 12/08/04 Analyzed: 12/10/04								
% Solids	ND	0.200	%						
<b>Duplicate (4120225-DUP1)</b>	<b>Source: B412128-01</b>		Prepared: 12/08/04 Analyzed: 12/10/04						
% Solids	79.3	0.200	%		77.3		2.55	20	
<b>Duplicate (4120225-DUP2)</b>	<b>Source: B412128-02</b>		Prepared: 12/08/04 Analyzed: 12/10/04						
% Solids	89.5	0.200	%		89.6		0.112	20	
<b>Duplicate (4120225-DUP3)</b>	<b>Source: B412128-03</b>		Prepared: 12/08/04 Analyzed: 12/10/04						
% Solids	75.6	0.200	%		73.7		2.55	20	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
12/14/04 17:03

### Notes and Definitions

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

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Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261  
Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #1L001  
Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330  
Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager


15 December 2004

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: C.969

Enclosed are the results of analyses for samples received by the laboratory on 12/10/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style. A vertical line is positioned to the left of the signature.

Andy Johnson  
Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: C.969 Project Number: C.969 Project Manager: Rhonda Register	Reported: 12/15/04 15:38
--	---	-----------------------------

### ANALYTICAL REPORT FOR SAMPLES

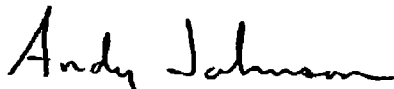
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BF-001	B412203-01	Soil	12/09/04 11:32	12/10/04 10:00

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Register

**Reported:**  
12/15/04 15:38

**General Chemistry**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BF-001 (B412203-01) Soil    Sampled: 12/09/04 11:32    Received: 12/10/04 10:00</b>									
<b>Organic Carbon</b>	<b>4.01</b>	1.00	%	1	4120387	12/15/04	12/15/04	ASTMD2974-8 7^^	
<b>pH</b>	<b>7.16</b>		pH Units	"	4120362	12/14/04	12/14/04	EPA 9045C	G26

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: C.969 Project Number: C.969 Project Manager: Rhonda Register	Reported: 12/15/04 15:38
--	---	-----------------------------

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BF-001 (B412203-01) Soil    Sampled: 12/09/04 11:32    Received: 12/10/04 10:00</b>									
Mercury	ND	0.0509	mg/kg dry	1	4120316	12/13/04	12/13/04	EPA 7471A	
<b>Aluminum</b>	<b>13400</b>	668	"	21	4120326	12/13/04	12/15/04	EPA 6010B	QC
Antimony	ND	6.37	"	1	"	"	12/15/04	"	
Arsenic	ND	3.18	"	"	"	"	"	"	
<b>Barium</b>	<b>76.0</b>	31.8	"	"	"	"	"	"	
<b>Beryllium</b>	<b>1.27</b>	0.637	"	"	"	"	"	"	
Cadmium	ND	0.637	"	"	"	"	"	"	
<b>Calcium</b>	<b>5000</b>	668	"	21	"	"	12/15/04	"	G14, QC
<b>Chromium</b>	<b>16.7</b>	0.637	"	1	"	"	12/15/04	"	
<b>Cobalt</b>	<b>6.35</b>	3.18	"	"	"	"	"	"	
<b>Copper</b>	<b>14.5</b>	3.18	"	"	"	"	"	"	
<b>Iron</b>	<b>17000</b>	134	"	21	"	"	12/15/04	"	QC
<b>Lead</b>	<b>19.1</b>	6.37	"	1	"	"	12/15/04	"	
<b>Magnesium</b>	<b>4290</b>	668	"	21	"	"	12/15/04	"	QC
<b>Manganese</b>	<b>168</b>	3.18	"	1	"	"	12/15/04	"	
<b>Nickel</b>	<b>18.0</b>	3.18	"	"	"	"	"	"	
<b>Potassium</b>	<b>1090</b>	31.8	"	"	"	"	"	"	
Selenium	ND	3.18	"	"	"	"	"	"	
Silver	ND	3.18	"	"	"	"	"	"	
<b>Sodium</b>	<b>71.9</b>	31.8	"	"	"	"	"	"	
Thallium	ND	6.37	"	"	"	"	"	"	
<b>Vanadium</b>	<b>25.9</b>	2.86	"	"	"	"	"	"	
<b>Zinc</b>	<b>52.7</b>	31.8	"	"	"	"	"	"	

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

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Entact	Project: C.969	Reported:
1010 Executive Ct. Suite 280	Project Number: C.969	12/15/04 15:38
Westmont, IL 60559	Project Manager: Rhonda Regester	

**Volatile Organic Compounds by EPA Method 5035/8260B**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BF-001 (B412203-01) Soil    Sampled: 12/09/04 11:32    Received: 12/10/04 10:00</b>									
Acetone	85.7	31.8	ug/kg dry	1	4120285	12/10/04	12/14/04	5035/8260B	A, B
Benzene	ND	6.37	"	"	"	"	"	"	
Bromodichloromethane	ND	6.37	"	"	"	"	"	"	
Bromoform	ND	6.37	"	"	"	"	"	"	
Bromomethane	ND	6.37	"	"	"	"	"	"	
2-Butanone	ND	12.7	"	"	"	"	"	"	
Carbon disulfide	ND	6.37	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.37	"	"	"	"	"	"	
Chlorobenzene	ND	6.37	"	"	"	"	"	"	
Chlorodibromomethane	ND	6.37	"	"	"	"	"	"	
Chloroethane	ND	6.37	"	"	"	"	"	"	
Chloroform	ND	6.37	"	"	"	"	"	"	
Chloromethane	ND	6.37	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.37	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.37	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.37	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.37	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.37	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.37	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	3.82	"	"	"	"	"	"	
Ethylbenzene	ND	6.37	"	"	"	"	"	"	
2-Hexanone	ND	12.7	"	"	"	"	"	"	
Methylene chloride	ND	6.37	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	12.7	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.37	"	"	"	"	"	"	
Styrene	ND	6.37	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.37	"	"	"	"	"	"	
Tetrachloroethene	ND	6.37	"	"	"	"	"	"	
Toluene	ND	6.37	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.37	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.37	"	"	"	"	"	"	
Trichloroethene	ND	6.37	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.37	"	"	"	"	"	"	
Vinyl acetate	ND	12.7	"	"	"	"	"	"	
Vinyl chloride	ND	6.37	"	"	"	"	"	"	
Total Xylenes	ND	12.7	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>									
		84.3 %	66.4-145	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>									
		83.6 %	59.5-171	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		78.9 %	64.5-139	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>									
		72.1 %	45.8-145	"	"	"	"	"	

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Polychlorinated Biphenyls by EPA Method 8082**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BF-001 (B412203-01) Soil    Sampled: 12/09/04 11:32    Received: 12/10/04 10:00</b>									
PCB-1016	ND	31.8	ug/kg dry	10	4120345	12/14/04	12/14/04	EPA 8082	
PCB-1221	ND	31.8	"	"	"	"	"	"	
PCB-1232	ND	31.8	"	"	"	"	"	"	
PCB-1242	ND	31.8	"	"	"	"	"	"	
PCB-1248	ND	31.8	"	"	"	"	"	"	
PCB-1254	ND	31.8	"	"	"	"	"	"	
PCB-1260	ND	31.8	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		66.5 %		10-114	"	"	"	"	
Surrogate: Decachlorobiphenyl		73.9 %		10-116	"	"	"	"	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BF-001 (B412203-01) Soil Sampled: 12/09/04 11:32 Received: 12/10/04 10:00</b>									<b>QC</b>
Acenaphthene	ND	127	ug/kg dry	1	4120353	12/14/04	12/15/04	EPA 8270C	
Acenaphthylene	ND	127	"	"	"	"	"	"	
Aniline	ND	127	"	"	"	"	"	"	
Anthracene	ND	127	"	"	"	"	"	"	
Benzoic acid	ND	637	"	"	"	"	"	"	
Benz (a) anthracene	ND	127	"	"	"	"	"	"	
Benzo (a) pyrene	ND	73.8	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	127	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	127	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	127	"	"	"	"	"	"	
Benzyl alcohol	ND	127	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	127	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	127	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	127	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	420	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	127	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	420	"	"	"	"	"	"	
Carbazole	ND	127	"	"	"	"	"	"	
4-Chloroaniline	ND	127	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	127	"	"	"	"	"	"	
2-Chloronaphthalene	ND	127	"	"	"	"	"	"	
2-Chlorophenol	ND	127	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	127	"	"	"	"	"	"	
Chrysene	ND	127	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	73.8	"	"	"	"	"	"	
Dibenzofuran	ND	127	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	127	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	127	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	127	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	637	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	127	"	"	"	"	"	"	
Diethyl phthalate	ND	127	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	127	"	"	"	"	"	"	
Dimethyl phthalate	ND	127	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	420	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	637	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	637	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	127	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	127	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	420	"	"	"	"	"	"	
Fluoranthene	ND	127	"	"	"	"	"	"	
Fluorene	ND	127	"	"	"	"	"	"	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Register

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BF-001 (B412203-01) Soil    Sampled: 12/09/04 11:32    Received: 12/10/04 10:00</b>									<b>QC</b>
Hexachlorobenzene	ND	127	ug/kg dry	1	4120353	12/14/04	12/15/04	EPA 8270C	
Hexachlorobutadiene	ND	127	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	127	"	"	"	"	"	"	
Hexachloroethane	ND	127	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	127	"	"	"	"	"	"	
Isophorone	ND	127	"	"	"	"	"	"	
2-Methylnaphthalene	ND	127	"	"	"	"	"	"	
o-Cresol	ND	127	"	"	"	"	"	"	
m,p-Cresols	ND	127	"	"	"	"	"	"	
Naphthalene	ND	127	"	"	"	"	"	"	
2-Nitroaniline	ND	637	"	"	"	"	"	"	
3-Nitroaniline	ND	637	"	"	"	"	"	"	
4-Nitroaniline	ND	637	"	"	"	"	"	"	
Nitrobenzene	ND	89.1	"	"	"	"	"	"	
2-Nitrophenol	ND	127	"	"	"	"	"	"	
4-Nitrophenol	ND	637	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	127	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	127	"	"	"	"	"	"	
Pentachlorophenol	ND	637	"	"	"	"	"	"	
Phenanthrene	ND	127	"	"	"	"	"	"	
Phenol	ND	127	"	"	"	"	"	"	
Pyrene	ND	127	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	127	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	637	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	127	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		96.7 %	10-117		"	"	"	"	
Surrogate: Phenol-d6		96.2 %	10-124		"	"	"	"	
Surrogate: Nitrobenzene-d5		78.5 %	10-125		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		77.0 %	10-116		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		100 %	10-118		"	"	"	"	
Surrogate: p-Terphenyl-d14		85.9 %	10-128		"	"	"	"	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: C.969 Project Number: C.969 Project Manager: Rhonda Regester	Reported: 12/15/04 15:38
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### Percent Solids

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>BF-001 (B412203-01) Soil    Sampled: 12/09/04 11:32    Received: 12/10/04 10:00</b>									
% Solids	78.5	0.200	%	1	4120328	12/13/04	12/15/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

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Entact	Project: C.969	
1010 Executive Ct. Suite 280	Project Number: C.969	<b>Reported:</b>
Westmont, IL 60559	Project Manager: Rhonda Regester	12/15/04 15:38

**General Chemistry - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120362 - General Prep WC**

<b>LCS (4120362-BS1)</b>		Prepared & Analyzed: 12/14/04								
pH	7.01		pH Units	7.00		100	98.6-101.4			
<b>LCS Dup (4120362-BSD1)</b>		Prepared & Analyzed: 12/14/04								
pH	7.02		pH Units	7.00		100	98.6-101.4	0.143	1	
<b>Duplicate (4120362-DUP1)</b>		<b>Source: B412126-01</b>		Prepared & Analyzed: 12/14/04						
pH	6.10		pH Units		6.11			0.164	1	

**Batch 4120387 - General Prep WC**

<b>Blank (4120387-BLK1)</b>		Prepared & Analyzed: 12/15/04								
Organic Carbon	ND	1.00	%							
<b>Duplicate (4120387-DUP1)</b>		<b>Source: B412203-01</b>		Prepared & Analyzed: 12/15/04						
Organic Carbon	3.86	1.00	%		4.01			3.81	43.6	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120316 - EPA 7471A**

**Blank (4120316-BLK1)**

Prepared & Analyzed: 12/13/04

Mercury ND 0.0400 mg/kg wet

**LCS (4120316-BS1)**

Prepared & Analyzed: 12/13/04

Mercury 0.138 0.0400 mg/kg wet 0.120 115 73.5-123

**Matrix Spike (4120316-MS1)**

Source: B412147-01

Prepared & Analyzed: 12/13/04

Mercury 0.225 0.0467 mg/kg dry 0.140 0.0783 105 38.7-154

**Matrix Spike Dup (4120316-MSD1)**

Source: B412147-01

Prepared & Analyzed: 12/13/04

Mercury 0.226 0.0467 mg/kg dry 0.140 0.0783 106 38.7-154 0.443 26.5

**Batch 4120326 - EPA 3050B**

**Blank (4120326-BLK1)**

Prepared: 12/13/04 Analyzed: 12/15/04

Aluminum	ND	25.0	mg/kg wet
Antimony	ND	5.00	"
Arsenic	ND	2.50	"
Barium	ND	25.0	"
Beryllium	ND	0.500	"
Cadmium	ND	0.500	"
Calcium	ND	25.0	"
Chromium	ND	0.500	"
Cobalt	ND	2.50	"
Copper	ND	2.50	"
Iron	ND	5.00	"
Lead	ND	5.00	"
Magnesium	ND	25.0	"
Manganese	ND	2.50	"
Nickel	ND	2.50	"
Potassium	ND	25.0	"
Selenium	ND	2.50	"
Silver	ND	2.50	"
Sodium	ND	25.0	"
Thallium	ND	5.00	"
Vanadium	ND	2.25	"
Zinc	ND	25.0	"

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact	Project: C.969	Reported:
1010 Executive Ct. Suite 280	Project Number: C.969	12/15/04 15:38
Westmont, IL 60559	Project Manager: Rhonda Regester	

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120326 - EPA 3050B**

**LCS (4120326-BS1)** Prepared: 12/13/04 Analyzed: 12/15/04

Aluminum	184	25.0	mg/kg wet	200		92.0	74.5-112			
Antimony	89.1	5.00	"	100		89.1	81.8-110			
Arsenic	88.3	2.50	"	100		88.3	79.5-110			
Barium	186	25.0	"	200		93.0	88.6-110			
Beryllium	96.0	0.500	"	100		96.0	88.2-110			
Cadmium	97.9	0.500	"	100		97.9	88.6-110			
Calcium	203	25.0	"	200		102	84.9-112			
Chromium	183	0.500	"	200		91.5	79.3-110			
Cobalt	186	2.50	"	200		93.0	86.4-110			
Copper	188	2.50	"	200		94.0	86.7-110			
Iron	194	5.00	"	200		97.0	88.9-114			
Lead	185	5.00	"	200		92.5	82.5-110			
Magnesium	186	25.0	"	200		93.0	79.3-110			
Manganese	190	2.50	"	200		95.0	89.3-110			
Nickel	188	2.50	"	200		94.0	87-110			
Potassium	317	25.0	"	400		79.2	63.5-115			
Selenium	89.0	2.50	"	100		89.0	79.9-110			
Silver	90.0	2.50	"	100		90.0	73.6-110			
Sodium	371	25.0	"	400		92.8	77.8-125			
Thallium	186	5.00	"	200		93.0	83.8-110			
Vanadium	192	2.25	"	200		96.0	90-110			
Zinc	191	25.0	"	200		95.5	84.4-110			

**Matrix Spike (4120326-MS1)** Source: B412203-01 Prepared: 12/13/04 Analyzed: 12/15/04

Aluminum	15800	668	mg/kg dry	252	13400	952	10-110			H
Antimony	28.6	6.37	"	126	ND	22.7	10-110			
Arsenic	92.9	3.18	"	126	2.41	71.8	58.8-110			
Barium	283	31.8	"	252	76.0	82.1	60.3-116			
Beryllium	107	0.637	"	126	1.27	83.9	63.9-110			
Cadmium	102	0.637	"	126	ND	81.0	59.6-110			
Calcium	5380	668	"	252	5000	151	10-150			H
Chromium	217	0.637	"	252	16.7	79.5	55.4-110			
Cobalt	205	3.18	"	252	6.35	78.8	63.9-110			
Copper	225	3.18	"	252	14.5	83.5	59.8-114			
Iron	18600	134	"	252	17000	635	10-150			H
Lead	214	6.37	"	252	19.1	77.3	51.5-110			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120326 - EPA 3050B**

<b>Matrix Spike (4120326-MS1)</b>		<b>Source: B412203-01</b>		Prepared: 12/13/04		Analyzed: 12/15/04				
Magnesium	4890	668	"	252	4290	238	10-150			H
Manganese	371	3.18	"	252	168	80.6	10-150			
Nickel	220	3.18	"	252	18.0	80.2	55.8-110			
Potassium	1530	31.8	"	504	1090	87.3	10-150			
Selenium	97.1	3.18	"	126	1.09	76.2	58.5-110			
Silver	99.1	3.18	"	126	ND	78.7	63-110			
Sodium	464	31.8	"	504	71.9	77.8	60-131			
Thallium	188	6.37	"	252	ND	74.6	62.3-110			
Vanadium	232	2.86	"	252	25.9	81.8	63.8-110			
Zinc	252	31.8	"	252	52.7	79.1	46.5-112			

<b>Matrix Spike Dup (4120326-MSD1)</b>		<b>Source: B412203-01</b>		Prepared: 12/13/04		Analyzed: 12/15/04				
Aluminum	16800	668	mg/kg dry	247	13400	NR	10-110	6.13	40	H
Antimony	29.3	6.37	"	124	ND	23.6	10-110	2.42	31.7	
Arsenic	92.0	3.18	"	124	2.41	72.2	58.8-110	0.974	18.1	
Barium	285	31.8	"	247	76.0	84.6	60.3-116	0.704	30.5	
Beryllium	106	0.637	"	124	1.27	84.5	63.9-110	0.939	17.7	
Cadmium	102	0.637	"	124	ND	82.3	59.6-110	0.00	17.7	
Calcium	5450	668	"	247	5000	182	10-150	1.29	40	H
Chromium	216	0.637	"	247	16.7	80.7	55.4-110	0.462	26	
Cobalt	205	3.18	"	247	6.35	80.4	63.9-110	0.00	19	
Copper	222	3.18	"	247	14.5	84.0	59.8-114	1.34	40	
Iron	18800	134	"	247	17000	729	10-150	1.07	36.4	H
Lead	214	6.37	"	247	19.1	78.9	51.5-110	0.00	34.8	
Magnesium	5160	668	"	247	4290	352	10-150	5.37	20	H
Manganese	370	3.18	"	247	168	81.8	10-150	0.270	40	
Nickel	218	3.18	"	247	18.0	81.0	55.8-110	0.913	22.9	
Potassium	1590	31.8	"	494	1090	101	10-150	3.85	34.4	
Selenium	95.5	3.18	"	124	1.09	76.1	58.5-110	1.66	19.6	
Silver	98.0	3.18	"	124	ND	79.0	63-110	1.12	33.3	
Sodium	465	31.8	"	494	71.9	79.6	60-131	0.215	32.7	
Thallium	188	6.37	"	247	ND	76.1	62.3-110	0.00	20.5	
Vanadium	232	2.86	"	247	25.9	83.4	63.8-110	0.00	18.5	
Zinc	254	31.8	"	247	52.7	81.5	46.5-112	0.791	37	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Register

Reported:  
12/15/04 15:38

**Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120285 - EPA 5035B [P/T]**

**Blank (4120285-BLK1)**

Prepared: 12/10/04 Analyzed: 12/13/04

Acetone	ND	25.0	ug/kg wet
Benzene	ND	5.00	"
Bromodichloromethane	ND	5.00	"
Bromoform	ND	5.00	"
Bromomethane	ND	5.00	"
2-Butanone	ND	10.0	"
Carbon disulfide	ND	5.00	"
Carbon tetrachloride	ND	5.00	"
Chlorobenzene	ND	5.00	"
Chlorodibromomethane	ND	5.00	"
Chloroethane	ND	5.00	"
Chloroform	ND	5.00	"
Chloromethane	ND	5.00	"
1,1-Dichloroethane	ND	5.00	"
1,2-Dichloroethane	ND	5.00	"
1,1-Dichloroethene	ND	5.00	"
cis-1,2-Dichloroethene	ND	5.00	"
trans-1,2-Dichloroethene	ND	5.00	"
1,2-Dichloropropane	ND	5.00	"
1,3-Dichloropropene (cis + trans)	ND	3.00	"
Ethylbenzene	ND	5.00	"
2-Hexanone	ND	10.0	"
Methylene chloride	ND	5.00	"
4-Methyl-2-pentanone	ND	10.0	"
Methyl tert-butyl ether	ND	5.00	"
Styrene	ND	5.00	"
1,1,2,2-Tetrachloroethane	ND	5.00	"
Tetrachloroethene	ND	5.00	"
Toluene	ND	5.00	"
1,1,1-Trichloroethane	ND	5.00	"
1,1,2-Trichloroethane	ND	5.00	"
Trichloroethene	ND	5.00	"
Trichlorofluoromethane	ND	5.00	"
Vinyl acetate	ND	10.0	"
Vinyl chloride	ND	5.00	"

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact	Project: C.969	Reported:
1010 Executive Ct. Suite 280	Project Number: C.969	12/15/04 15:38
Westmont, IL 60559	Project Manager: Rhonda Regester	

**Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120285 - EPA 5035B [P/T]**

**Blank (4120285-BLK1)**

Prepared: 12/10/04 Analyzed: 12/13/04

Total Xylenes	ND	10.0	ug/kg wet							
Surrogate: Dibromofluoromethane	40.1		"	50.0		80.2	66.4-145			
Surrogate: 1,2-Dichloroethane-d4	35.0		"	50.0		70.0	59.5-171			
Surrogate: Toluene-d8	37.0		"	50.0		74.0	64.5-139			
Surrogate: 4-Bromofluorobenzene	42.7		"	50.0		85.4	45.8-145			

**LCS (4120285-BS1)**

Prepared: 12/10/04 Analyzed: 12/14/04

Acetone	61.5	25.0	ug/kg wet	50.0		123	13.4-232			
Benzene	52.0	5.00	"	50.0		104	63.5-145			
Bromodichloromethane	53.1	5.00	"	50.0		106	64-157			
Bromoform	64.7	5.00	"	50.0		129	46.5-161			
Bromomethane	29.6	5.00	"	50.0		59.2	10-172			
2-Butanone	64.5	10.0	"	50.0		129	12.2-205			
Carbon disulfide	40.2	5.00	"	50.0		80.4	10-184			
Carbon tetrachloride	56.2	5.00	"	50.0		112	41.8-166			
Chlorobenzene	52.5	5.00	"	50.0		105	65.5-138			
Chlorodibromomethane	59.8	5.00	"	50.0		120	62.2-144			
Chloroethane	43.5	5.00	"	50.0		87.0	10-206			
Chloroform	47.3	5.00	"	50.0		94.6	66.8-143			
Chloromethane	40.0	5.00	"	50.0		80.0	25.5-145			
1,1-Dichloroethane	49.8	5.00	"	50.0		99.6	55-138			
1,2-Dichloroethane	50.1	5.00	"	50.0		100	57.5-155			
1,1-Dichloroethene	47.1	5.00	"	50.0		94.2	49.8-148			
cis-1,2-Dichloroethene	53.1	5.00	"	50.0		106	65-144			
trans-1,2-Dichloroethene	51.0	5.00	"	50.0		102	58.7-139			
1,2-Dichloropropane	52.0	5.00	"	50.0		104	66-141			
1,3-Dichloropropene (cis + trans)	105	3.00	"	100		105	77.8-141			
Ethylbenzene	53.2	5.00	"	50.0		106	64.7-140			
2-Hexanone	79.6	10.0	"	50.0		159	26.3-179			
Methylene chloride	54.8	5.00	"	50.0		110	37.6-166			
4-Methyl-2-pentanone	80.8	10.0	"	50.0		162	37.2-168			
Methyl tert-butyl ether	54.1	5.00	"	50.0		108	53.3-152			
Styrene	49.4	5.00	"	50.0		98.8	62.9-145			
1,1,2,2-Tetrachloroethane	66.7	5.00	"	50.0		133	40.2-163			
Tetrachloroethene	52.8	5.00	"	50.0		106	54.7-150			
Toluene	52.3	5.00	"	50.0		105	65.5-143			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact	Project: C.969	
1010 Executive Ct. Suite 280	Project Number: C.969	<b>Reported:</b>
Westmont, IL 60559	Project Manager: Rhonda Regester	12/15/04 15:38

**Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120285 - EPA 5035B [P/T]**

<b>LCS (4120285-BS1)</b>		Prepared: 12/10/04 Analyzed: 12/14/04								
1,1,1-Trichloroethane	51.4	5.00	ug/kg wet	50.0		103	60.1-154			
1,1,2-Trichloroethane	62.8	5.00	"	50.0		126	66.9-148			
Trichloroethene	51.8	5.00	"	50.0		104	70.9-147			
Trichlorofluoromethane	51.4	5.00	"	50.0		103	10-224			
Vinyl acetate	11.0	10.0	"	50.0		22.0	17-213			
Vinyl chloride	57.4	5.00	"	50.0		115	40.4-142			
Total Xylenes	152	10.0	"	150		101	59.7-147			
Surrogate: Dibromofluoromethane	43.0		"	50.0		86.0	66.4-145			
Surrogate: 1,2-Dichloroethane-d4	40.8		"	50.0		81.6	59.5-171			
Surrogate: Toluene-d8	38.3		"	50.0		76.6	64.5-139			
Surrogate: 4-Bromofluorobenzene	48.7		"	50.0		97.4	45.8-145			

<b>LCS Dup (4120285-BSD1)</b>		Prepared: 12/10/04 Analyzed: 12/14/04								
Acetone	64.8	25.0	ug/kg wet	50.0		130	13.4-232	5.23	79.9	
Benzene	49.0	5.00	"	50.0		98.0	63.5-145	5.94	34.6	
Bromodichloromethane	51.6	5.00	"	50.0		103	64-157	2.87	40.3	
Bromoform	64.1	5.00	"	50.0		128	46.5-161	0.932	42.1	
Bromomethane	26.3	5.00	"	50.0		52.6	10-172	11.8	102	
2-Butanone	70.2	10.0	"	50.0		140	12.2-205	8.46	75.1	
Carbon disulfide	37.1	5.00	"	50.0		74.2	10-184	8.02	45.9	
Carbon tetrachloride	53.4	5.00	"	50.0		107	41.8-166	5.11	48.6	
Chlorobenzene	48.6	5.00	"	50.0		97.2	65.5-138	7.72	35.3	
Chlorodibromomethane	56.0	5.00	"	50.0		112	62.2-144	6.56	43.1	
Chloroethane	38.0	5.00	"	50.0		76.0	10-206	13.5	103	
Chloroform	44.1	5.00	"	50.0		88.2	66.8-143	7.00	34.7	
Chloromethane	38.7	5.00	"	50.0		77.4	25.5-145	3.30	62	
1,1-Dichloroethane	47.0	5.00	"	50.0		94.0	55-138	5.79	40.3	
1,2-Dichloroethane	49.1	5.00	"	50.0		98.2	57.5-155	2.02	36.5	
1,1-Dichloroethene	44.4	5.00	"	50.0		88.8	49.8-148	5.90	44	
cis-1,2-Dichloroethene	49.5	5.00	"	50.0		99.0	65-144	7.02	34.6	
trans-1,2-Dichloroethene	48.0	5.00	"	50.0		96.0	58.7-139	6.06	35.8	
1,2-Dichloropropane	49.7	5.00	"	50.0		99.4	66-141	4.52	37.3	
1,3-Dichloropropene (cis + trans)	102	3.00	"	100		102	77.8-141	2.90	30.9	
Ethylbenzene	47.4	5.00	"	50.0		94.8	64.7-140	11.5	36.4	
2-Hexanone	73.7	10.0	"	50.0		147	26.3-179	7.70	59.8	
Methylene chloride	52.2	5.00	"	50.0		104	37.6-166	4.86	47	

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

Entact	Project: C.969	
1010 Executive Ct. Suite 280	Project Number: C.969	Reported:
Westmont, IL 60559	Project Manager: Rhonda Regester	12/15/04 15:38

**Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120285 - EPA 5035B [P/T]**

**LCS Dup (4120285-BSD1)**

Prepared: 12/10/04 Analyzed: 12/14/04

4-Methyl-2-pentanone	81.5	10.0	ug/kg wet	50.0		163	37.2-168	0.863	56.8	
Methyl tert-butyl ether	53.6	5.00	"	50.0		107	53.3-152	0.929	34	
Styrene	44.4	5.00	"	50.0		88.8	62.9-145	10.7	40.9	
1,1,2,2-Tetrachloroethane	67.4	5.00	"	50.0		135	40.2-163	1.04	48.6	
Tetrachloroethene	47.7	5.00	"	50.0		95.4	54.7-150	10.1	39.3	
Toluene	47.4	5.00	"	50.0		94.8	65.5-143	9.83	31.5	
1,1,1-Trichloroethane	47.9	5.00	"	50.0		95.8	60.1-154	7.05	39.9	
1,1,2-Trichloroethane	58.2	5.00	"	50.0		116	66.9-148	7.60	34	
Trichloroethene	48.9	5.00	"	50.0		97.8	70.9-147	5.76	34.8	
Trichlorofluoromethane	49.3	5.00	"	50.0		98.6	10-224	4.17	82.3	
Vinyl acetate	9.95	10.0	"	50.0		19.9	17-213	10.0	81.3	
Vinyl chloride	44.6	5.00	"	50.0		89.2	40.4-142	25.1	51.3	
Total Xylenes	137	10.0	"	150		91.3	59.7-147	10.4	41.2	
Surrogate: Dibromofluoromethane	41.2		"	50.0		82.4	66.4-145			
Surrogate: 1,2-Dichloroethane-d4	41.4		"	50.0		82.8	59.5-171			
Surrogate: Toluene-d8	37.0		"	50.0		74.0	64.5-139			
Surrogate: 4-Bromofluorobenzene	46.3		"	50.0		92.6	45.8-145			

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

Page 16 of 28

Entact	Project: C.969	Reported:
1010 Executive Ct. Suite 280	Project Number: C.969	12/15/04 15:38
Westmont, IL 60559	Project Manager: Rhonda Regester	

**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120345 - EPA 3550B**

<b>Blank (4120345-BLK1)</b>				Prepared: 12/14/04 Analyzed: 12/15/04						
PCB-1016	ND	25.0	ug/kg wet							
PCB-1221	ND	25.0	"							
PCB-1232	ND	25.0	"							
PCB-1242	ND	25.0	"							
PCB-1248	ND	25.0	"							
PCB-1254	ND	25.0	"							
PCB-1260	ND	25.0	"							
Surrogate: Tetrachloro-meta-xylene	19.9		"	33.0		60.3	10-114			
Surrogate: Decachlorobiphenyl	22.0		"	33.0		66.7	10-116			

<b>LCS (4120345-BS1)</b>				Prepared: 12/14/04 Analyzed: 12/15/04						
PCB-1016	56.9	25.0	ug/kg wet	83.9		67.8	10-127			
PCB-1260	57.4	25.0	"	83.9		68.4	10-134			
Surrogate: Tetrachloro-meta-xylene	20.5		"	33.6		61.0	10-114			
Surrogate: Decachlorobiphenyl	19.5		"	33.6		58.0	10-116			

<b>Matrix Spike (4120345-MS1)</b>				Source: B412224-03		Prepared: 12/14/04 Analyzed: 12/15/04				
PCB-1016	44.8	25.0	ug/kg wet	84.1	ND	53.3	10-118			
PCB-1260	47.4	25.0	"	84.1	ND	56.4	10-124			
Surrogate: Tetrachloro-meta-xylene	17.1		"	33.6		50.9	10-114			
Surrogate: Decachlorobiphenyl	16.7		"	33.6		49.7	10-116			

<b>Matrix Spike Dup (4120345-MSD1)</b>				Source: B412224-03		Prepared: 12/14/04 Analyzed: 12/15/04				
PCB-1016	35.7	25.0	ug/kg wet	82.8	ND	43.1	10-118	22.6	40	
PCB-1260	33.0	25.0	"	82.8	ND	39.9	10-124	35.8	40	
Surrogate: Tetrachloro-meta-xylene	14.5		"	33.1		43.8	10-114			
Surrogate: Decachlorobiphenyl	11.9		"	33.1		36.0	10-116			

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

**Blank (4120353-BLK1)**

Prepared: 12/14/04 Analyzed: 12/15/04

Acenaphthene	ND	100	ug/kg wet
Acenaphthylene	ND	100	"
Aniline	ND	100	"
Anthracene	ND	100	"
Benzoic acid	ND	500	"
Benz (a) anthracene	ND	100	"
Benzo (a) pyrene	ND	58.0	"
Benzo (b) fluoranthene	ND	100	"
Benzo (ghi) perylene	ND	100	"
Benzo (k) fluoranthene	ND	100	"
Benzyl alcohol	ND	100	"
Bis(2-chloroethoxy)methane	ND	100	"
Bis(2-chloroethyl)ether	ND	100	"
Bis(2-chloroisopropyl)ether	ND	100	"
Bis(2-ethylhexyl)phthalate	ND	330	"
4-Bromophenyl phenyl ether	ND	100	"
Butyl benzyl phthalate	ND	330	"
Carbazole	ND	100	"
4-Chloroaniline	ND	100	"
4-Chloro-3-methylphenol	ND	100	"
2-Chloronaphthalene	ND	100	"
2-Chlorophenol	ND	100	"
4-Chlorophenyl phenyl ether	ND	100	"
Chrysene	ND	100	"
Dibenz (a,h) anthracene	ND	58.0	"
Dibenzofuran	ND	100	"
1,2-Dichlorobenzene	ND	100	"
1,3-Dichlorobenzene	ND	100	"
1,4-Dichlorobenzene	ND	100	"
3,3'-Dichlorobenzidine	ND	500	"
2,4-Dichlorophenol	ND	100	"
Diethyl phthalate	ND	100	"
2,4-Dimethylphenol	ND	100	"
Dimethyl phthalate	ND	100	"
Di-n-butyl phthalate	ND	330	"

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

**Blank (4120353-BLK1)**

Prepared: 12/14/04 Analyzed: 12/15/04

4,6-Dinitro-2-methylphenol	ND	500	ug/kg wet							
2,4-Dinitrophenol	ND	500	"							
2,4-Dinitrotoluene	ND	100	"							
2,6-Dinitrotoluene	ND	100	"							
Di-n-octyl phthalate	ND	330	"							
Fluoranthene	ND	100	"							
Fluorene	ND	100	"							
Hexachlorobenzene	ND	100	"							
Hexachlorobutadiene	ND	100	"							
Hexachlorocyclopentadiene	ND	100	"							
Hexachloroethane	ND	100	"							
Indeno (1,2,3-cd) pyrene	ND	100	"							
Isophorone	ND	100	"							
2-Methylnaphthalene	ND	100	"							
o-Cresol	ND	100	"							
m,p-Cresols	ND	100	"							
Naphthalene	ND	100	"							
2-Nitroaniline	ND	500	"							
3-Nitroaniline	ND	500	"							
4-Nitroaniline	ND	500	"							
Nitrobenzene	ND	70.0	"							
2-Nitrophenol	ND	100	"							
4-Nitrophenol	ND	500	"							
N-Nitrosodi-n-propylamine	ND	100	"							
N-Nitrosodiphenylamine	ND	100	"							
Pentachlorophenol	ND	500	"							
Phenanthrene	ND	100	"							
Phenol	ND	100	"							
Pyrene	ND	100	"							
1,2,4-Trichlorobenzene	ND	100	"							
2,4,5-Trichlorophenol	ND	500	"							
2,4,6-Trichlorophenol	ND	100	"							
Surrogate: 2-Fluorophenol	1460		"	1650		88.5	10-117			
Surrogate: Phenol-d6	1580		"	1650		95.8	10-124			
Surrogate: Nitrobenzene-d5	675		"	827		81.6	10-125			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact	Project: C.969	Reported:
1010 Executive Ct. Suite 280	Project Number: C.969	12/15/04 15:38
Westmont, IL 60559	Project Manager: Rhonda Register	

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

**Blank (4120353-BLK1)**

Prepared: 12/14/04 Analyzed: 12/15/04

Surrogate: 2-Fluorobiphenyl	660		ug/kg wet	827		79.8	10-116			
Surrogate: 2,4,6-Tribromophenol	1600		"	1650		97.0	10-118			
Surrogate: p-Terphenyl-d14	786		"	827		95.0	10-128			

**LCS (4120353-BS1)**

Prepared: 12/14/04 Analyzed: 12/15/04

Acenaphthene	606	100	ug/kg wet	833		72.7	40.4-110			
Acenaphthylene	629	100	"	833		75.5	41-110			
Aniline	309	100	"	833		37.1	10-110			
Anthracene	628	100	"	833		75.4	42.9-111			
Benzoic acid	728	500	"	833		87.4	10-157			
Benz (a) anthracene	681	100	"	833		81.8	42.3-115			
Benzo (a) pyrene	635	58.0	"	833		76.2	43.5-111			
Benzo (b) fluoranthene	626	100	"	833		75.2	38.8-124			
Benzo (ghi) perylene	646	100	"	833		77.6	20-125			
Benzo (k) fluoranthene	588	100	"	833		70.6	36.9-126			
Benzyl alcohol	736	100	"	833		88.4	40.2-110			
Bis(2-chloroethoxy)methane	607	100	"	833		72.9	39.6-110			
Bis(2-chloroethyl)ether	667	100	"	833		80.1	36.1-110			
Bis(2-chloroisopropyl)ether	642	100	"	833		77.1	37.2-110			
Bis(2-ethylhexyl)phthalate	756	330	"	833		90.8	31.7-138			
4-Bromophenyl phenyl ether	588	100	"	833		70.6	40.5-112			
Butyl benzyl phthalate	803	330	"	833		96.4	31.1-133			
Carbazole	666	100	"	833		80.0	39.6-117			
4-Chloroaniline	382	100	"	833		45.9	10-110			
4-Chloro-3-methylphenol	673	100	"	833		80.8	41.9-115			
2-Chloronaphthalene	592	100	"	833		71.1	38-110			
2-Chlorophenol	678	100	"	833		81.4	41.9-110			
4-Chlorophenyl phenyl ether	619	100	"	833		74.3	42.3-110			
Chrysene	652	100	"	833		78.3	43.2-113			
Dibenz (a,h) anthracene	641	58.0	"	833		77.0	29.1-117			
Dibenzofuran	623	100	"	833		74.8	43.6-110			
1,2-Dichlorobenzene	634	100	"	833		76.1	39.7-110			
1,3-Dichlorobenzene	621	100	"	833		74.5	37.9-110			
1,4-Dichlorobenzene	596	100	"	833		71.5	33.9-110			
3,3'-Dichlorobenzidine	493	50.0	"	833		59.2	10-123			
2,4-Dichlorophenol	656	100	"	833		78.8	38.2-110			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

**LCS (4120353-BS1)**

Prepared: 12/14/04 Analyzed: 12/15/04

Diethyl phthalate	650	100	ug/kg wet	833		78.0	43.5-115			
2,4-Dimethylphenol	642	100	"	833		77.1	32.1-110			
Dimethyl phthalate	624	100	"	833		74.9	43.6-112			
Di-n-butyl phthalate	721	330	"	833		86.6	40.3-120			
4,6-Dinitro-2-methylphenol	703	500	"	833		84.4	10-141			
2,4-Dinitrophenol	655	500	"	833		78.6	10-139			
2,4-Dinitrotoluene	645	100	"	833		77.4	43.2-112			
2,6-Dinitrotoluene	639	100	"	833		76.7	44.3-112			
Di-n-octyl phthalate	769	330	"	833		92.3	30.4-137			
Fluoranthene	663	100	"	833		79.6	41.9-114			
Fluorene	604	100	"	833		72.5	43.9-111			
Hexachlorobenzene	575	100	"	833		69.0	38.4-110			
Hexachlorobutadiene	579	100	"	833		69.5	32.3-110			
Hexachlorocyclopentadiene	563	100	"	833		67.6	10-110			
Hexachloroethane	605	100	"	833		72.6	32.7-110			
Indeno (1,2,3-cd) pyrene	668	100	"	833		80.2	26.7-121			
Isophorone	652	100	"	833		78.3	38.1-110			
2-Methylnaphthalene	606	100	"	833		72.7	40.5-110			
o-Cresol	729	100	"	833		87.5	41.3-110			
m,p-Cresols	732	100	"	833		87.9	34.1-118			
Naphthalene	596	100	"	833		71.5	39.6-110			
2-Nitroaniline	727	500	"	833		87.3	42.9-112			
3-Nitroaniline	550	500	"	833		66.0	27.4-111			
4-Nitroaniline	723	500	"	833		86.8	29.3-123			
Nitrobenzene	641	70.0	"	833		77.0	31.6-110			
2-Nitrophenol	633	100	"	833		76.0	34.5-110			
4-Nitrophenol	684	500	"	833		82.1	23.3-129			
N-Nitrosodi-n-propylamine	694	100	"	833		83.3	40.4-113			
N-Nitrosodiphenylamine	609	100	"	833		73.1	40.1-115			
Pentachlorophenol	766	500	"	833		92.0	15.8-119			
Phenanthrene	628	100	"	833		75.4	43.8-110			
Phenol	757	100	"	833		90.9	41.7-110			
Pyrene	658	100	"	833		79.0	28.6-136			
1,2,4-Trichlorobenzene	591	100	"	833		70.9	35.7-110			
2,4,5-Trichlorophenol	653	500	"	833		78.4	32.1-118			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

**LCS (4120353-BS1)**

Prepared: 12/14/04 Analyzed: 12/15/04

2,4,6-Trichlorophenol	656	100	ug/kg wet	833		78.8	35.4-113			
Surrogate: 2-Fluorophenol	1550		"	1670		92.8	10-117			
Surrogate: Phenol-d6	1540		"	1670		92.2	10-124			
Surrogate: Nitrobenzene-d5	692		"	833		83.1	10-125			
Surrogate: 2-Fluorobiphenyl	651		"	833		78.2	10-116			
Surrogate: 2,4,6-Tribromophenol	1580		"	1670		94.6	10-118			
Surrogate: p-Terphenyl-d14	739		"	833		88.7	10-128			

**Matrix Spike (4120353-MS1)**

Source: B412245-02

Prepared: 12/14/04 Analyzed: 12/15/04

**O3**

Acenaphthene	346	100	ug/kg wet	836	20.7	38.9	22.4-110			
Acenaphthylene	344	100	"	836	ND	41.1	21.2-110			
Aniline	252	100	"	836	ND	30.1	10-110			
Anthracene	337	100	"	836	27.1	37.1	21.3-111			
Benzoic acid	313	50.0	"	836	ND	37.4	10-122			
Benz (a) anthracene	392	100	"	836	65.2	39.1	15.5-115			
Benzo (a) pyrene	321	58.0	"	836	49.2	32.5	11.4-111			
Benzo (b) fluoranthene	346	100	"	836	66.2	33.5	19-114			
Benzo (ghi) perylene	300	100	"	836	35.8	31.6	10-130			
Benzo (k) fluoranthene	317	100	"	836	26.1	34.8	17.8-116			
Benzyl alcohol	480	100	"	836	ND	57.4	27.8-110			
Bis(2-chloroethoxy)methane	379	100	"	836	ND	45.3	29.8-110			
Bis(2-chloroethyl)ether	435	100	"	836	ND	52.0	24.2-110			
Bis(2-chloroisopropyl)ether	408	100	"	836	ND	48.8	25.2-110			
Bis(2-ethylhexyl)phthalate	428	330	"	836	ND	51.2	10-143			
4-Bromophenyl phenyl ether	315	100	"	836	ND	37.7	25.9-110			
Butyl benzyl phthalate	407	330	"	836	ND	48.7	10-142			
Carbazole	400	100	"	836	ND	47.8	16.5-112			
4-Chloroaniline	281	100	"	836	ND	33.6	10-110			
4-Chloro-3-methylphenol	432	100	"	836	ND	51.7	28-114			
2-Chloronaphthalene	341	100	"	836	ND	40.8	22.9-110			
2-Chlorophenol	430	100	"	836	ND	51.4	23.7-110			
4-Chlorophenyl phenyl ether	352	100	"	836	ND	42.1	24.2-110			
Chrysene	364	100	"	836	67.2	35.5	14.3-114			
Dibenz (a,h) anthracene	310	58.0	"	836	ND	37.1	10-129			
Dibenzofuran	351	100	"	836	ND	42.0	24.5-110			
1,2-Dichlorobenzene	349	100	"	836	ND	41.7	23.7-110			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

<b>Matrix Spike (4120353-MS1)</b>		<b>Source: B412245-02</b>		<b>Prepared: 12/14/04 Analyzed: 12/15/04</b>						<b>O3</b>
1,3-Dichlorobenzene	325	100	ug/kg wet	836	ND	38.9	22.7-110			
1,4-Dichlorobenzene	324	100	"	836	ND	38.8	24.4-110			
3,3'-Dichlorobenzidine	279	50.0	"	836	ND	33.4	10-121			
2,4-Dichlorophenol	403	100	"	836	ND	48.2	18.3-112			
Diethyl phthalate	411	100	"	836	ND	49.2	26.5-112			
2,4-Dimethylphenol	377	100	"	836	ND	45.1	14.5-113			
Dimethyl phthalate	393	100	"	836	ND	47.0	30.6-110			
Di-n-butyl phthalate	397	330	"	836	ND	47.5	22.7-114			
4,6-Dinitro-2-methylphenol	467	50.0	"	836	ND	55.9	10-129			
2,4-Dinitrophenol	431	50.0	"	836	ND	51.6	10-129			
2,4-Dinitrotoluene	431	100	"	836	ND	51.6	26.2-117			
2,6-Dinitrotoluene	427	100	"	836	ND	51.1	24.3-119			
Di-n-octyl phthalate	444	330	"	836	ND	53.1	10-138			
Fluoranthene	435	100	"	836	155	33.5	11.3-120			
Fluorene	349	100	"	836	26.1	38.6	24.1-110			
Hexachlorobenzene	285	100	"	836	ND	34.1	24.2-110			
Hexachlorobutadiene	293	100	"	836	ND	35.0	20.8-110			
Hexachlorocyclopentadiene	304	100	"	836	ND	36.4	10-110			
Hexachloroethane	302	100	"	836	ND	36.1	18.2-110			
Indeno (1,2,3-cd) pyrene	317	100	"	836	36.5	33.6	10-137			
Isophorone	416	100	"	836	ND	49.8	24.2-110			
2-Methylnaphthalene	346	100	"	836	44.8	36.0	23.2-110			
o-Cresol	476	100	"	836	ND	56.9	27.9-110			
m,p-Cresols	465	100	"	836	ND	55.6	11.6-129			
Naphthalene	341	100	"	836	ND	40.8	19.5-110			
2-Nitroaniline	475	50.0	"	836	ND	56.8	26.4-124			
3-Nitroaniline	432	50.0	"	836	ND	51.7	17.7-117			
4-Nitroaniline	511	500	"	836	ND	61.1	26.2-117			
Nitrobenzene	395	70.0	"	836	ND	47.2	26.2-110			
2-Nitrophenol	392	100	"	836	ND	46.9	21.2-113			
4-Nitrophenol	493	50.0	"	836	ND	59.0	10-144			
N-Nitrosodi-n-propylamine	437	100	"	836	ND	52.3	29.8-113			
N-Nitrosodiphenylamine	354	100	"	836	ND	42.3	21.8-115			
Pentachlorophenol	527	500	"	836	ND	63.0	10-129			
Phenanthrene	368	100	"	836	134	28.0	18.4-118			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Register

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

<b>Matrix Spike (4120353-MS1)</b>		<b>Source: B412245-02</b>		<b>Prepared: 12/14/04</b>		<b>Analyzed: 12/15/04</b>		<b>O3</b>	
Phenol	470	100	ug/kg wet	836	ND	56.2	27.7-110		
Pyrene	378	100	"	836	118	31.1	10-145		
1,2,4-Trichlorobenzene	318	100	"	836	ND	38.0	20.4-110		
2,4,5-Trichlorophenol	416	50.0	"	836	ND	49.8	10-124		
2,4,6-Trichlorophenol	420	100	"	836	ND	50.2	13.8-119		
Surrogate: 2-Fluorophenol	1060		"	1670		63.5	10-117		
Surrogate: Phenol-d6	1020		"	1670		61.1	10-124		
Surrogate: Nitrobenzene-d5	469		"	836		56.1	10-125		
Surrogate: 2-Fluorobiphenyl	406		"	836		48.6	10-116		
Surrogate: 2,4,6-Tribromophenol	1040		"	1670		62.3	10-118		
Surrogate: p-Terphenyl-d14	424		"	836		50.7	10-128		

<b>Matrix Spike Dup (4120353-MSD1)</b>		<b>Source: B412245-02</b>		<b>Prepared: 12/14/04</b>		<b>Analyzed: 12/15/04</b>			
Acenaphthene	542	100	ug/kg wet	836	20.7	62.4	22.4-110	44.1	40 H
Acenaphthylene	523	100	"	836	ND	62.6	21.2-110	41.3	40 H
Aniline	403	100	"	836	ND	48.2	10-110	46.1	40 H
Anthracene	543	100	"	836	27.1	61.7	21.3-111	46.8	40 H
Benzoic acid	302	50.0	"	836	ND	36.1	10-122	3.58	40
Benz (a) anthracene	597	100	"	836	65.2	63.6	15.5-115	41.5	40 H
Benzo (a) pyrene	515	58.0	"	836	49.2	55.7	11.4-111	46.4	40 H
Benzo (b) fluoranthene	547	100	"	836	66.2	57.5	19-114	45.0	40 H
Benzo (ghi) perylene	465	100	"	836	35.8	51.3	10-130	43.1	40 H
Benzo (k) fluoranthene	471	100	"	836	26.1	53.2	17.8-116	39.1	40
Benzyl alcohol	664	100	"	836	ND	79.4	27.8-110	32.2	40
Bis(2-chloroethoxy)methane	635	100	"	836	ND	76.0	29.8-110	50.5	40 H
Bis(2-chloroethyl)ether	703	100	"	836	ND	84.1	24.2-110	47.1	40 H
Bis(2-chloroisopropyl)ether	645	100	"	836	ND	77.2	25.2-110	45.0	40 H
Bis(2-ethylhexyl)phthalate	702	330	"	836	ND	84.0	10-143	48.5	40 H
4-Bromophenyl phenyl ether	492	100	"	836	ND	58.9	25.9-110	43.9	40 H
Butyl benzyl phthalate	693	330	"	836	ND	82.9	10-142	52.0	40 H
Carbazole	632	100	"	836	ND	75.6	16.5-112	45.0	40 H
4-Chloroaniline	462	100	"	836	ND	55.3	10-110	48.7	40 H
4-Chloro-3-methylphenol	652	100	"	836	ND	78.0	28-114	40.6	40 H
2-Chloronaphthalene	521	100	"	836	ND	62.3	22.9-110	41.8	40 H
2-Chlorophenol	667	100	"	836	ND	79.8	23.7-110	43.2	40 H
4-Chlorophenyl phenyl ether	522	100	"	836	ND	62.4	24.2-110	38.9	40

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120353 - EPA 3550B**

Matrix Spike Dup (4120353-MSD1)		Source: B412245-02		Prepared: 12/14/04		Analyzed: 12/15/04				
Chrysene	561	100	ug/kg wet	836	67.2	59.1	14.3-114	42.6	40	H
Dibenz (a,h) anthracene	493	58.0	"	836	ND	59.0	10-129	45.6	40	H
Dibenzofuran	534	100	"	836	ND	63.9	24.5-110	41.4	40	H
1,2-Dichlorobenzene	564	100	"	836	ND	67.5	23.7-110	47.1	40	H
1,3-Dichlorobenzene	532	100	"	836	ND	63.6	22.7-110	48.3	40	H
1,4-Dichlorobenzene	524	100	"	836	ND	62.7	24.4-110	47.2	40	H
3,3'-Dichlorobenzidine	466	50.0	"	836	ND	55.7	10-121	50.2	40	H
2,4-Dichlorophenol	628	100	"	836	ND	75.1	18.3-112	43.6	40	H
Diethyl phthalate	633	100	"	836	ND	75.7	26.5-112	42.5	40	H
2,4-Dimethylphenol	625	100	"	836	ND	74.8	14.5-113	49.5	40	H
Dimethyl phthalate	634	100	"	836	ND	75.8	30.6-110	46.9	40	H
Di-n-butyl phthalate	637	330	"	836	ND	76.2	22.7-114	46.4	40	H
4,6-Dinitro-2-methylphenol	558	500	"	836	ND	66.7	10-129	17.8	40	
2,4-Dinitrophenol	416	50.0	"	836	ND	49.8	10-129	3.54	40	
2,4-Dinitrotoluene	649	100	"	836	ND	77.6	26.2-117	40.4	40	H
2,6-Dinitrotoluene	697	100	"	836	ND	83.4	24.3-119	48.0	40	H
Di-n-octyl phthalate	714	330	"	836	ND	85.4	10-138	46.6	40	H
Fluoranthene	666	100	"	836	155	61.1	11.3-120	42.0	40	H
Fluorene	526	100	"	836	26.1	59.8	24.1-110	40.5	40	H
Hexachlorobenzene	471	100	"	836	ND	56.3	24.2-110	49.2	40	H
Hexachlorobutadiene	473	100	"	836	ND	56.6	20.8-110	47.0	40	H
Hexachlorocyclopentadiene	398	100	"	836	ND	47.6	10-110	26.8	40	
Hexachloroethane	463	100	"	836	ND	55.4	18.2-110	42.1	40	H
Indeno (1,2,3-cd) pyrene	487	100	"	836	36.5	53.9	10-137	42.3	40	H
Isophorone	670	100	"	836	ND	80.1	24.2-110	46.8	40	H
2-Methylnaphthalene	546	100	"	836	44.8	60.0	23.2-110	44.8	40	H
o-Cresol	696	100	"	836	ND	83.3	27.9-110	37.5	40	
m,p-Cresols	712	100	"	836	ND	85.2	11.6-129	42.0	40	H
Naphthalene	546	100	"	836	ND	65.3	19.5-110	46.2	40	H
2-Nitroaniline	730	500	"	836	ND	87.3	26.4-124	42.3	40	H
3-Nitroaniline	647	500	"	836	ND	77.4	17.7-117	39.9	40	
4-Nitroaniline	777	500	"	836	ND	92.9	26.2-117	41.3	40	H
Nitrobenzene	614	70.0	"	836	ND	73.4	26.2-110	43.4	40	H
2-Nitrophenol	647	100	"	836	ND	77.4	21.2-113	49.1	40	H
4-Nitrophenol	619	500	"	836	ND	74.0	10-144	22.7	40	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 4120353 - EPA 3550B**

**Matrix Spike Dup (4120353-MSD1)**

Source: B412245-02

Prepared: 12/14/04 Analyzed: 12/15/04

N-Nitrosodi-n-propylamine	696	100	ug/kg wet	836	ND	83.3	29.8-113	45.7	40	H
N-Nitrosodiphenylamine	572	100	"	836	ND	68.4	21.8-115	47.1	40	H
Pentachlorophenol	625	500	"	836	ND	74.8	10-129	17.0	40	
Phenanthrene	574	100	"	836	134	52.6	18.4-118	43.7	40	H
Phenol	743	100	"	836	ND	88.9	27.7-110	45.0	40	H
Pyrene	604	100	"	836	118	58.1	10-145	46.0	40	H
1,2,4-Trichlorobenzene	519	100	"	836	ND	62.1	20.4-110	48.0	40	H
2,4,5-Trichlorophenol	629	500	"	836	ND	75.2	10-124	40.8	40	H
2,4,6-Trichlorophenol	667	100	"	836	ND	79.8	13.8-119	45.4	40	H
Surrogate: 2-Fluorophenol	1580		"	1670		94.6	10-117			
Surrogate: Phenol-d6	1610		"	1670		96.4	10-124			
Surrogate: Nitrobenzene-d5	748		"	836		89.5	10-125			
Surrogate: 2-Fluorobiphenyl	633		"	836		75.7	10-116			
Surrogate: 2,4,6-Tribromophenol	1610		"	1670		96.4	10-118			
Surrogate: p-Terphenyl-d14	707		"	836		84.6	10-128			

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120328 - General Prep</b>										
<b>Blank (4120328-BLK1)</b>				Prepared: 12/13/04 Analyzed: 12/15/04						
% Solids	ND	0.200	%							
<b>Blank (4120328-BLK2)</b>				Prepared: 12/13/04 Analyzed: 12/15/04						
% Solids	ND	0.200	%							
<b>Blank (4120328-BLK3)</b>				Prepared: 12/13/04 Analyzed: 12/15/04						
% Solids	ND	0.200	%							
<b>Duplicate (4120328-DUP1)</b>				<b>Source: B412189-01</b>		Prepared: 12/13/04 Analyzed: 12/15/04				
% Solids	61.3	0.200	%		61.3			0.00	20	
<b>Duplicate (4120328-DUP2)</b>				<b>Source: B412189-02</b>		Prepared: 12/13/04 Analyzed: 12/15/04				
% Solids	48.0	0.200	%		47.0			2.11	20	
<b>Duplicate (4120328-DUP3)</b>				<b>Source: B412194-01</b>		Prepared: 12/13/04 Analyzed: 12/15/04				
% Solids	88.6	0.200	%		86.9			1.94	20	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Page 27 of 28

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: C.969  
Project Number: C.969  
Project Manager: Rhonda Regester

Reported:  
12/15/04 15:38

### Notes and Definitions

- A The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.
- B The method blank associated with this sample contains 3.64 ug/kg of this analyte.
- G14 The recovery of this analyte in the check standard is above the method specified acceptance criteria.
- G26 The method requires this analysis to be performed immediately after sampling; however, the analysis was performed as soon as possible upon sample arrival at the laboratory.
- O3 One or more internal standard recoveries were above the method specified acceptance criteria.
- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## ANALYTICAL REPORT

GREAT LAKES ANALYTICAL 9638

1380 BUSCH PARKWAY  
BUFFALO GROVE, IL 60089

Project: B412203  
Project Name:  
Sampler:

Lab Number: 04-A193499  
Sample ID: B412203-01  
Sample Type: Soil  
Site ID:

Date Collected: 12/ 9/04  
Time Collected: 11:32  
Date Received: 12/11/04  
Time Received: 9:10

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
*PESTICIDE/PCB's/HERBICIDES*									
**2,4-D	ND	mg/kg	0.167	1	12/14/04	21:50	K. Burritt	8151A	6836
**2,4,5-T	ND	mg/kg	0.0167	1	12/14/04	21:50	K. Burritt	8151A	6836
**2,4,5-TP (Silvex)	ND	mg/kg	0.0167	1	12/14/04	21:50	K. Burritt	8151A	6836
**Dalapon	ND	mg/kg	0.333	1	12/14/04	21:50	K. Burritt	8151A	6836
**2,4-DB	ND	mg/kg	0.167	1	12/14/04	21:50	K. Burritt	8151A	6836
**Dicamba	ND	mg/kg	0.0167	1	12/14/04	21:50	K. Burritt	8151A	6836
**Dichloroprop	ND	mg/kg	0.167	1	12/14/04	21:50	K. Burritt	8151A	6836
**Dinoseb	ND	mg/kg	0.0833	1	12/14/04	21:50	K. Burritt	8151A	6836
**MCPA	ND	mg/kg	3.33	1	12/14/04	21:50	K. Burritt	8151A	6836
**MCP	ND	mg/kg	3.33	1	12/14/04	21:50	K. Burritt	8151A	6836
**Pentachlorophenol	ND	mg/kg	0.0167	1	12/14/04	21:50	K. Burritt	8151A	6836
**4-Nitrophenol	ND	mg/kg	0.0167	1	12/14/04	21:50	K. Burritt	8151A	6836
**Aldrin	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**a-BHC	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**b-BHC	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**d-BHC	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**g-BHC, Lindane	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**4,4'-DDD	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**4,4'-DDE	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**4,4'-DDT	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**Dieldrin	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**Endosulfan I	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**Endosulfan II	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**Endosulfan sulfate	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**Endrin	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**Endrin aldehyde	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**Endrin Ketone	ND	mg/kg	0.0033	1	12/14/04	12:35	M. Ricke	8081A	6117
**Heptachlor	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**Heptachlor epoxide	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117
**Methoxychlor	ND	mg/kg	0.0166	1	12/14/04	12:35	M. Ricke	8081A	6117
**Toxaphene	ND	mg/kg	0.333	1	12/14/04	12:35	M. Ricke	8081A	6117
**alpha-Chlordane	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117

Sample report continued . . .

## ANALYTICAL REPORT

Laboratory Number: 04-A193499  
Sample ID: B412203-01

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
**gamma-Chlordane	ND	mg/kg	0.0017	1	12/14/04	12:35	M. Ricke	8081A	6117

### Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
-----	-----	-----	-----	-----	-----	-----
OC Pest	30.2 gm	10.0 ml	12/13/04		K. Turner	3550
Herbicides	30. gm	10.0 ml	12/13/04		J. Davis	8151

Surrogate	% Recovery	Target Range
-----	-----	-----
pest surr-TCMX	70.	53. - 142.
pest surr-DCB	90.	47. - 139.
Herbicide Surr., DCAA	90.	50. - 130.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
All results reported on a wet weight basis.

End of Sample Report.

## PROJECT QUALITY CONTROL DATA

Project Number: B412203

Project Name:

Page: 1

Laboratory Receipt Date: 12/11/04

### Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
**PEST/PCB/HERB PARAMETERS**								
2,4-D	mg/kg	< 0.167	0.144	0.167	86	24. - 126.	6836	04-A193499
2,4,5-T	mg/kg	< 0.0167	0.159	0.167	95	10. - 141.	6836	04-A193499
2,4,5-TP (Silvex)	mg/kg	< 0.0167	0.139	0.167	83	18. - 121.	6836	04-A193499
Dalapon	mg/kg	< 0.333	< 0.333	0.167	N/A	10. - 97.	6836	04-A193499
2,4-DB	mg/kg	< 0.167	0.166	0.167	99	14. - 160.	6836	04-A193499
Dicamba	mg/kg	< 0.0167	0.133	0.167	80	10. - 133.	6836	04-A193499
Dichloroprop	mg/kg	< 0.167	0.174	0.167	104	20. - 153.	6836	04-A193499
Dinoseb	mg/kg	< 0.0833	0.0476	0.167	29	10. - 108.	6836	04-A193499
MCPA	mg/kg	< 3.33	14.2	16.7	85	10. - 144.	6836	04-A193499
MCPP	mg/kg	< 3.33	13.2	16.7	79	24. - 130.	6836	04-A193499
Pentachlorophenol	mg/kg	< 0.0167	0.145	0.167	87	13. - 113.	6836	04-A193499
4-Nitrophenol	mg/kg	< 0.0167	0.109	0.167	65	10. - 116.	6836	04-A193499
Aldrin	mg/kg	< 0.0017	0.0150	0.0167	90	53. - 134.	6117	blank
g-BHC, Lindane	mg/kg	< 0.0017	0.0147	0.0167	88	48. - 140.	6117	blank
4,4' DDT	mg/kg	< 0.0033	0.0147	0.0167	88	40. - 139.	6117	blank
Dieldrin	mg/kg	< 0.0033	0.0157	0.0167	94	55. - 131.	6117	blank
Endrin	mg/kg	< 0.0033	0.0157	0.0167	94	52. - 143.	6117	blank
Heptachlor	mg/kg	< 0.0017	0.0150	0.0167	90	52. - 134.	6117	blank

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
**PEST/PCB/HERB PARAMETERS**						
2,4-D	mg/kg	0.144	0.134	7.19	49.	6836
2,4,5-T	mg/kg	0.159	0.155	2.55	69.	6836
2,4,5-TP (Silvex)	mg/kg	0.139	0.137	1.45	49.	6836
Dalapon	mg/kg	< 0.333	0.0789	123.38#	97.	6836
2,4-DB	mg/kg	0.166	0.154	7.50	51.	6836
Dicamba	mg/kg	0.133	0.133	0.00	55.	6836

Project QC continued . . .

## PROJECT QUALITY CONTROL DATA

Project Number: B412203

Project Name:

Page: 2

Laboratory Receipt Date: 12/11/04

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
Dichloroprop	mg/kg	0.174	0.167	4.11	51.	6836
Dinoseb	mg/kg	0.0476	0.0493	3.51	94.	6836
MCPA	mg/kg	14.2	14.3	0.70	28.	6836
MCPP	mg/kg	13.2	13.3	0.75	50.	6836
Pentachlorophenol	mg/kg	0.145	0.143	1.39	43.	6836
4-Nitrophenol	mg/kg	0.109	0.104	4.69	65.	6836
Aldrin	mg/kg	0.0150	0.0153	1.98	39.	6117
g-BHC, Lindane	mg/kg	0.0147	0.0150	2.02	41.	6117
4,4'-DDT	mg/kg	0.0147	0.0147	0.00	41.	6117
Dieldrin	mg/kg	0.0157	0.0157	0.00	37.	6117
Endrin	mg/kg	0.0157	0.0157	0.00	41.	6117
Heptachlor	mg/kg	0.0150	0.0153	1.98	42.	6117

### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
**PEST/PCB/HERB PARAMETERS**						
2,4-D	mg/kg	0.167	0.145	87	45 - 114	6836
2,4,5-T	mg/kg	0.167	0.182	109	22 - 134	6836
2,4,5-TP (Silvex)	mg/kg	0.167	0.143	86	21 - 121	6836
Dalapon	mg/kg	0.167	0.0649	39	10 - 97	6836
2,4-DB	mg/kg	0.167	0.124	74	39 - 141	6836
Dicamba	mg/kg	0.167	0.140	84	27 - 131	6836
Dichloroprop	mg/kg	0.167	0.179	107	20 - 153	6836
Dinoseb	mg/kg	0.167	0.0333	20	10 - 101	6836
MCPA	mg/kg	16.7	14.2	85	10 - 144	6836
MCPP	mg/kg	16.7	14.0	84	32 - 130	6836
Pentachlorophenol	mg/kg	0.167	0.151	90	25 - 107	6836
4-Nitrophenol	mg/kg	0.167	0.119	71	21 - 116	6836
Aldrin	mg/kg	0.0167	0.0157	94	66 - 130	6117
a-BHC	mg/kg	0.0167	0.0147	88	66 - 129	6117
b-BHC	mg/kg	0.0167	0.0166	99	69 - 131	6117
d-BHC	mg/kg	0.0167	0.0143	86	64 - 135	6117
g-BHC, Lindane	mg/kg	0.0167	0.0153	92	65 - 131	6117

Project QC continued . . .

## PROJECT QUALITY CONTROL DATA

Project Number: B412203

Project Name:

Page: 3

Laboratory Receipt Date: 12/11/04

### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
4,4'-DDD	mg/kg	0.0167	0.0157	94	66 - 136	6117
4,4'-DDE	mg/kg	0.0167	0.0160	96	65 - 136	6117
4,4'-DDT	mg/kg	0.0167	0.0150	90	63 - 132	6117
Dieldrin	mg/kg	0.0167	0.0163	98	63 - 125	6117
Endosulfan I	mg/kg	0.0167	0.0163	98	65 - 136	6117
Endosulfan II	mg/kg	0.0167	0.0166	99	63 - 137	6117
Endosulfan sulfate	mg/kg	0.0167	0.0163	98	63 - 138	6117
Endrin	mg/kg	0.0167	0.0163	98	67 - 141	6117
Endrin aldehyde	mg/kg	0.0167	0.0160	96	50 - 145	6117
Endrin Ketone	mg/kg	0.0167	0.0163	98	62 - 131	6117
Heptachlor	mg/kg	0.0167	0.0157	94	64 - 132	6117
Heptachlor epoxide	mg/kg	0.0167	0.0160	96	63 - 136	6117
Methoxychlor	mg/kg	0.0167	0.0163	98	62 - 146	6117
Toxaphene	mg/kg	0.333	0.346	104	72 - 156	6117
alpha-Chlordane	mg/kg	0.0167	0.0160	96	61 - 139	6117
gamma-Chlordane	mg/kg	0.0167	0.0160	96	63 - 138	6117

### Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
-----	-----	-----	-----	-----	-----	-----	-----

### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----

### \*\*PEST/PCB/HERB PARAMETERS\*\*

2,4-D	< 0.166	mg/kg	6836	12/14/04	21:18
2,4,5-T	< 0.0166	mg/kg	6836	12/14/04	21:18
2,4,5-TP (Silvex)	< 0.0166	mg/kg	6836	12/14/04	21:18
Dalapon	< 0.333	mg/kg	6836	12/14/04	21:18
2,4-DB	< 0.166	mg/kg	6836	12/14/04	21:18

Project QC continued . . .

## PROJECT QUALITY CONTROL DATA

Project Number: B412203

Project Name:

Page: 4

Laboratory Receipt Date: 12/11/04

### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Dicamba	< 0.0166	mg/kg	6836	12/14/04	21:18
Dichloroprop	< 0.166	mg/kg	6836	12/14/04	21:18
Dinoseb	< 0.0832	mg/kg	6836	12/14/04	21:18
MCPA	< 3.33	mg/kg	6836	12/14/04	21:18
MCPP	< 3.33	mg/kg	6836	12/14/04	21:18
Pentachlorophenol	< 0.0166	mg/kg	6836	12/14/04	21:18
4-Nitrophenol	< 0.0166	mg/kg	6836	12/14/04	21:18
Aldrin	< 0.0017	mg/kg	6117	12/14/04	11:36
a-BHC	< 0.0017	mg/kg	6117	12/14/04	11:36
b-BHC	< 0.0017	mg/kg	6117	12/14/04	11:36
d-BHC	< 0.0017	mg/kg	6117	12/14/04	11:36
g-BHC, Lindane	< 0.0017	mg/kg	6117	12/14/04	11:36
4,4'-DDD	< 0.0033	mg/kg	6117	12/14/04	11:36
4,4'-DDE	< 0.0033	mg/kg	6117	12/14/04	11:36
4,4'-DDT	< 0.0033	mg/kg	6117	12/14/04	11:36
Dieldrin	< 0.0033	mg/kg	6117	12/14/04	11:36
Endosulfan I	< 0.0017	mg/kg	6117	12/14/04	11:36
Endosulfan II	< 0.0033	mg/kg	6117	12/14/04	11:36
Endosulfan sulfate	< 0.0033	mg/kg	6117	12/14/04	11:36
Endrin	< 0.0033	mg/kg	6117	12/14/04	11:36
Endrin aldehyde	< 0.0033	mg/kg	6117	12/14/04	11:36
Endrin Ketone	< 0.0033	mg/kg	6117	12/14/04	11:36
Heptachlor	< 0.0017	mg/kg	6117	12/14/04	11:36
Heptachlor epoxide	< 0.0017	mg/kg	6117	12/14/04	11:36
Methoxychlor	< 0.0166	mg/kg	6117	12/14/04	11:36
Toxaphene	< 0.333	mg/kg	6117	12/14/04	11:36
alpha-Chlordane	< 0.0017	mg/kg	6117	12/14/04	11:36
gamma-Chlordane	< 0.0017	mg/kg	6117	12/14/04	11:36
pest surr-TCMX	90.	% Rec	6117	12/14/04	11:36
pest surr-DCB	140.	% Rec	6117	12/14/04	11:36
Herbicide Surr., DCAA	120.	% Rec	6836	12/14/04	21:18

12/16/04

**GREAT LAKES ANALYTICAL 9638**

**1380 BUSCH PARKWAY  
BUFFALO GROVE, IL 60089**

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name:

Project Number: B412203.

Laboratory Project Number: 399825.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
B412203-01	04-A193499	12/ 9/04

Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.

This report shall not be reproduced except in full and with  
permission of the laboratory.

Report Approved By:

*Roxanne L. Connor*

Report Date: 12/16/04

Johnny A. Mitchell, Lab Director  
Michael H. Dunn, M.S., Technical Director  
Pamela A. Langford, Technical Services  
Eric S. Smith, QA/QC Director  
Sandra McMillin, Technical Services

Gail A. Lage, Technical Services  
Glenn L. Norton, Technical Services  
Kelly S. Comstock, Technical Services  
Roxanne L. Connor, Technical Services  
Mark Hollingsworth, Director of Project

Laboratory Certification Number: 945

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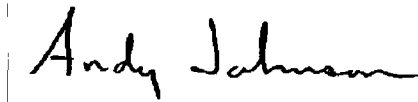
23 December 2004

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 12/17/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style. To the left of the signature is a vertical line.

Andy Johnson  
Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/23/04 15:06

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G12210BY	B412324-01	Soil	12/16/04 14:35	12/17/04 12:05
U12024BY	B412324-02	Soil	12/16/04 13:40	12/17/04 12:05
G12210FY	B412324-03	Soil	12/16/04 14:30	12/17/04 12:05
U11818BY	B412324-04	Soil	12/16/04 13:15	12/17/04 12:05
H12105BY	B412324-05	Soil	12/16/04 13:34	12/17/04 12:05
I22820FY	B412324-06	Soil	12/16/04 13:50	12/17/04 12:05
I22901FY	B412324-07	Soil	12/16/04 14:20	12/17/04 12:05
I18710FY	B412324-08	Soil	12/16/04 12:50	12/17/04 12:05
I18710BY	B412324-09	Soil	12/16/04 12:45	12/17/04 12:05
I22853-55BY	B412324-10	Soil	12/16/04 14:00	12/17/04 12:05
I22853-55BY Dup	B412324-11	Soil	12/16/04 14:00	12/17/04 12:05
I22853-55FY	B412324-12	Soil	12/16/04 14:05	12/17/04 12:05
U11820FY	B412324-13	Soil	12/16/04 13:00	12/17/04 12:05
U11820BY	B412324-14	Soil	12/16/04 13:05	12/17/04 12:05
U12046-48BY	B412324-15	Soil	12/16/04 15:40	12/17/04 12:05

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Regester	Reported: 12/23/04 15:06
--	---	-----------------------------

**Total Metals by EPA 6000/7000 Series Methods  
Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>G12210BY (B412324-01) Soil    Sampled: 12/16/04 14:35    Received: 12/17/04 12:05</b>									
Lead	437	6.06	mg/kg dry	1	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>U12024BY (B412324-02) Soil    Sampled: 12/16/04 13:40    Received: 12/17/04 12:05</b>									
Lead	869	11.9	mg/kg dry	2	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>G12210FY (B412324-03) Soil    Sampled: 12/16/04 14:30    Received: 12/17/04 12:05</b>									
Lead	522	6.30	mg/kg dry	1	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>U11818BY (B412324-04) Soil    Sampled: 12/16/04 13:15    Received: 12/17/04 12:05</b>									
Lead	846	12.4	mg/kg dry	2	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>H12105BY (B412324-05) Soil    Sampled: 12/16/04 13:34    Received: 12/17/04 12:05</b>									
Lead	501	5.71	mg/kg dry	1	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>I22820FY (B412324-06) Soil    Sampled: 12/16/04 13:50    Received: 12/17/04 12:05</b>									
Lead	430	6.16	mg/kg dry	1	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>I22901FY (B412324-07) Soil    Sampled: 12/16/04 14:20    Received: 12/17/04 12:05</b>									
Lead	940	12.0	mg/kg dry	2	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>I18710FY (B412324-08) Soil    Sampled: 12/16/04 12:50    Received: 12/17/04 12:05</b>									
Lead	826	12.1	mg/kg dry	2	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>I18710BY (B412324-09) Soil    Sampled: 12/16/04 12:45    Received: 12/17/04 12:05</b>									
Lead	482	5.88	mg/kg dry	1	4120510	12/20/04	12/21/04	EPA 6010B	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/23/04 15:06

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>122853-55BY (B412324-10) Soil Sampled: 12/16/04 14:00 Received: 12/17/04 12:05</b>									
Lead	8080	127	mg/kg dry	11	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>122853-55BY Dup (B412324-11) Soil Sampled: 12/16/04 14:00 Received: 12/17/04 12:05</b>									
Lead	3290	64.6	mg/kg dry	11	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>122853-55FY (B412324-12) Soil Sampled: 12/16/04 14:05 Received: 12/17/04 12:05</b>									
Lead	1040	64.5	mg/kg dry	11	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>U11820FY (B412324-13) Soil Sampled: 12/16/04 13:00 Received: 12/17/04 12:05</b>									
Lead	604	64.9	mg/kg dry	11	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>U11820BY (B412324-14) Soil Sampled: 12/16/04 13:05 Received: 12/17/04 12:05</b>									
Lead	1410	69.1	mg/kg dry	11	4120510	12/20/04	12/21/04	EPA 6010B	QC
<b>U12046-48BY (B412324-15) Soil Sampled: 12/16/04 15:40 Received: 12/17/04 12:05</b>									
Lead	816	66.0	mg/kg dry	11	4120510	12/20/04	12/21/04	EPA 6010B	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/23/04 15:06

**Percent Solids**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>G12210BY (B412324-01) Soil    Sampled: 12/16/04 14:35    Received: 12/17/04 12:05</b>									
% Solids	82.5	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>U12024BY (B412324-02) Soil    Sampled: 12/16/04 13:40    Received: 12/17/04 12:05</b>									
% Solids	84.0	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>G12210FY (B412324-03) Soil    Sampled: 12/16/04 14:30    Received: 12/17/04 12:05</b>									
% Solids	79.4	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>U11818BY (B412324-04) Soil    Sampled: 12/16/04 13:15    Received: 12/17/04 12:05</b>									
% Solids	80.7	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>H12105BY (B412324-05) Soil    Sampled: 12/16/04 13:34    Received: 12/17/04 12:05</b>									
% Solids	87.5	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>122820FY (B412324-06) Soil    Sampled: 12/16/04 13:50    Received: 12/17/04 12:05</b>									
% Solids	81.1	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>122901FY (B412324-07) Soil    Sampled: 12/16/04 14:20    Received: 12/17/04 12:05</b>									
% Solids	83.5	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>118710FY (B412324-08) Soil    Sampled: 12/16/04 12:50    Received: 12/17/04 12:05</b>									
% Solids	82.8	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>118710BY (B412324-09) Soil    Sampled: 12/16/04 12:45    Received: 12/17/04 12:05</b>									
% Solids	85.0	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/23/04 15:06

**Percent Solids**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>122853-55BY (B412324-10) Soil Sampled: 12/16/04 14:00 Received: 12/17/04 12:05</b>									
% Solids	82.8	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>122853-55BY Dup (B412324-11) Soil Sampled: 12/16/04 14:00 Received: 12/17/04 12:05</b>									
% Solids	85.1	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>122853-55FY (B412324-12) Soil Sampled: 12/16/04 14:05 Received: 12/17/04 12:05</b>									
% Solids	85.2	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>U11820FY (B412324-13) Soil Sampled: 12/16/04 13:00 Received: 12/17/04 12:05</b>									
% Solids	84.7	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>U11820BY (B412324-14) Soil Sampled: 12/16/04 13:05 Received: 12/17/04 12:05</b>									
% Solids	79.6	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	
<b>U12046-48BY (B412324-15) Soil Sampled: 12/16/04 15:40 Received: 12/17/04 12:05</b>									
% Solids	83.3	0.200	%	1	4120483	12/17/04	12/23/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559


Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/23/04 15:06

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120510 - EPA 3050B</b>										
<b>Blank (4120510-BLK1)</b>										
					Prepared: 12/20/04 Analyzed: 12/21/04					
Lead	ND	5.00	mg/kg wet							
<b>LCS (4120510-BS1)</b>										
					Prepared: 12/20/04 Analyzed: 12/21/04					
Lead	197	5.00	mg/kg wet	200		98.5	82.5-110			
<b>Matrix Spike (4120510-MS1)</b>										
					Source: B412324-01		Prepared: 12/20/04 Analyzed: 12/21/04			
Lead	662	6.06	mg/kg dry	253	437	88.9	51.5-110			
<b>Matrix Spike Dup (4120510-MSD1)</b>										
					Source: B412324-01		Prepared: 12/20/04 Analyzed: 12/21/04			
Lead	940	12.1	mg/kg dry	245	437	205	51.5-110	34.7	34.8	H

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register


Reported:  
12/23/04 15:06

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120483 - General Prep</b>									
<b>Blank (4120483-BLK1)</b>									
% Solids	ND	0.200	%						Prepared: 12/17/04 Analyzed: 12/23/04
<b>Blank (4120483-BLK2)</b>									
% Solids	ND	0.200	%						Prepared: 12/17/04 Analyzed: 12/23/04
<b>Blank (4120483-BLK3)</b>									
% Solids	ND	0.200	%						Prepared: 12/17/04 Analyzed: 12/23/04
<b>Duplicate (4120483-DUP1)</b>									
% Solids	86.2	0.200	%		82.5		4.39	20	Source: B412324-01 Prepared: 12/17/04 Analyzed: 12/23/04
<b>Duplicate (4120483-DUP2)</b>									
% Solids	83.8	0.200	%		84.0		0.238	20	Source: B412324-02 Prepared: 12/17/04 Analyzed: 12/23/04
<b>Duplicate (4120483-DUP3)</b>									
% Solids	78.6	0.200	%		79.4		1.01	20	Source: B412324-03 Prepared: 12/17/04 Analyzed: 12/23/04

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
12/23/04 15:06

### Notes and Definitions

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

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28 December 2004

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 12/22/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style. To the left of the signature is a vertical line.

Andy Johnson  
Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/28/04 12:38

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S11730BY	B412401-01	Soil	12/21/04 09:14	12/22/04 14:00
S11814FY	B412401-02	Soil	12/21/04 09:20	12/22/04 14:00
P12227BY	B412401-03	Soil	12/21/04 09:53	12/22/04 14:00
S11736BY	B412401-04	Soil	12/21/04 10:22	12/22/04 14:00
S11725BY	B412401-05	Soil	12/21/04 10:37	12/22/04 14:00
S11814BY	B412401-06	Soil	12/21/04 09:23	12/22/04 14:00
S11730FY	B412401-07	Soil	12/21/04 09:12	12/22/04 14:00
M11827FY	B412401-08	Soil	12/21/04 08:57	12/22/04 14:00
M11827BY	B412401-09	Soil	12/21/04 09:00	12/22/04 14:00
S11814FY Dup	B412401-10	Soil	12/21/04 09:20	12/22/04 14:00

#### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/28/04 12:38

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S11730BY (B412401-01) Soil    Sampled: 12/21/04 09:14    Received: 12/22/04 14:00</b>									
Lead	2140	76.4	mg/kg dry	11	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11814FY (B412401-02) Soil    Sampled: 12/21/04 09:20    Received: 12/22/04 14:00</b>									
Lead	552	6.22	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>P12227BY (B412401-03) Soil    Sampled: 12/21/04 09:53    Received: 12/22/04 14:00</b>									
Lead	462	6.36	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11736BY (B412401-04) Soil    Sampled: 12/21/04 10:22    Received: 12/22/04 14:00</b>									
Lead	824	67.6	mg/kg dry	11	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11725BY (B412401-05) Soil    Sampled: 12/21/04 10:37    Received: 12/22/04 14:00</b>									
Lead	741	7.35	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11814BY (B412401-06) Soil    Sampled: 12/21/04 09:23    Received: 12/22/04 14:00</b>									
Lead	827	70.9	mg/kg dry	11	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11730FY (B412401-07) Soil    Sampled: 12/21/04 09:12    Received: 12/22/04 14:00</b>									
Lead	1250	69.9	mg/kg dry	11	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>M11827FY (B412401-08) Soil    Sampled: 12/21/04 08:57    Received: 12/22/04 14:00</b>									
Lead	494	6.19	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>M11827BY (B412401-09) Soil    Sampled: 12/21/04 09:00    Received: 12/22/04 14:00</b>									
Lead	1910	64.4	mg/kg dry	11	4120637	12/27/04	12/27/04	EPA 6010B	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/28/04 12:38

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S11814FY Dup (B412401-10) Soil    Sampled: 12/21/04 09:20    Received: 12/22/04 14:00</b>									
<b>Lead</b>	<b>580</b>	6.15	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

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1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/28/04 12:38

**Percent Solids**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S11730BY (B412401-01) Soil    Sampled: 12/21/04 09:14    Received: 12/22/04 14:00</b>									
% Solids	72.0	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11814FY (B412401-02) Soil    Sampled: 12/21/04 09:20    Received: 12/22/04 14:00</b>									
% Solids	80.4	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>P12227BY (B412401-03) Soil    Sampled: 12/21/04 09:53    Received: 12/22/04 14:00</b>									
% Solids	78.6	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11736BY (B412401-04) Soil    Sampled: 12/21/04 10:22    Received: 12/22/04 14:00</b>									
% Solids	81.4	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11725BY (B412401-05) Soil    Sampled: 12/21/04 10:37    Received: 12/22/04 14:00</b>									
% Solids	68.0	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11814BY (B412401-06) Soil    Sampled: 12/21/04 09:23    Received: 12/22/04 14:00</b>									
% Solids	77.5	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11730FY (B412401-07) Soil    Sampled: 12/21/04 09:12    Received: 12/22/04 14:00</b>									
% Solids	78.7	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>M11827FY (B412401-08) Soil    Sampled: 12/21/04 08:57    Received: 12/22/04 14:00</b>									
% Solids	80.8	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>M11827BY (B412401-09) Soil    Sampled: 12/21/04 09:00    Received: 12/22/04 14:00</b>									
% Solids	85.4	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/28/04 12:38

**Percent Solids**

**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
SI1814FY Dup (B412401-10) Soil    Sampled: 12/21/04 09:20    Received: 12/22/04 14:00									
% Solids	81.4	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/28/04 12:38

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 4120637 - EPA 3050B**

**Blank (4120637-BLK1)**

Prepared & Analyzed: 12/27/04

Lead ND 5.00 mg/kg wet

**LCS (4120637-BS1)**

Prepared & Analyzed: 12/27/04

Lead 176 5.00 mg/kg wet 200 88.0 82.5-110

**Matrix Spike (4120637-MS1)**

Source: B412401-01

Prepared & Analyzed: 12/27/04

Lead 2520 76.4 mg/kg dry 278 2140 137 51.5-110 H

**Matrix Spike Dup (4120637-MSD1)**

Source: B412401-01

Prepared & Analyzed: 12/27/04

Lead 1960 76.4 mg/kg dry 270 2140 NR 51.5-110 25.0 34.8 L

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/28/04 12:38

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120626 - General Prep</b>									
<b>Blank (4120626-BLK1)</b>									
% Solids	ND	0.200	%						Prepared: 12/23/04 Analyzed: 12/28/04
<b>Blank (4120626-BLK2)</b>									
% Solids	ND	0.200	%						Prepared: 12/23/04 Analyzed: 12/28/04
<b>Blank (4120626-BLK3)</b>									
% Solids	ND	0.200	%						Prepared: 12/23/04 Analyzed: 12/28/04
<b>Duplicate (4120626-DUP1)</b>									
% Solids	85.7	0.200	%		83.6		2.48	20	Source: B412396-01 Prepared: 12/23/04 Analyzed: 12/28/04
<b>Duplicate (4120626-DUP2)</b>									
% Solids	74.7	0.200	%		72.0		3.68	20	Source: B412401-01 Prepared: 12/23/04 Analyzed: 12/28/04
<b>Duplicate (4120626-DUP3)</b>									
% Solids	80.9	0.200	%		86.1		6.23	20	Source: B412409-01 Prepared: 12/23/04 Analyzed: 12/28/04

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
12/28/04 12:38

### Notes and Definitions

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

30 December 2004

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 12/22/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style.

Andy Johnson  
Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/30/04 07:59

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
122835BY	B412402-01	Soil	12/21/04 10:03	12/22/04 14:00
122835FY	B412402-02	Soil	12/21/04 10:00	12/22/04 14:00
S11744FY	B412402-03	Soil	12/21/04 15:35	12/22/04 14:00
S11736FY	B412402-04	Soil	12/21/04 15:31	12/22/04 14:00
S11744BY	B412402-05	Soil	12/21/04 15:37	12/22/04 14:00
LPS.002	B412402-06	Soil	12/21/04 12:20	12/22/04 14:00

#### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/30/04 07:59

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>122835BY (B412402-01) Soil Sampled: 12/21/04 10:03 Received: 12/22/04 14:00</b>									
Lead	623	5.95	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>122835FY (B412402-02) Soil Sampled: 12/21/04 10:00 Received: 12/22/04 14:00</b>									
Lead	995	64.6	mg/kg dry	11	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11744FY (B412402-03) Soil Sampled: 12/21/04 15:35 Received: 12/22/04 14:00</b>									
Lead	414	6.07	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11736FY (B412402-04) Soil Sampled: 12/21/04 15:31 Received: 12/22/04 14:00</b>									
Lead	1310	68.5	mg/kg dry	11	4120637	12/27/04	12/27/04	EPA 6010B	QC
<b>S11744BY (B412402-05) Soil Sampled: 12/21/04 15:37 Received: 12/22/04 14:00</b>									
Lead	354	5.84	mg/kg dry	1	4120637	12/27/04	12/27/04	EPA 6010B	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/30/04 07:59

**TCLP Metals by EPA 1311/6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LPS.002 (B412402-06) Soil    Sampled: 12/21/04 12:20    Received: 12/22/04 14:00									
Lead	0.833	0.120	mg/l	1	4120697	12/29/04	12/29/04	EPA 7421	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
12/30/04 07:59

**Percent Solids**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>122835BY (B412402-01) Soil    Sampled: 12/21/04 10:03    Received: 12/22/04 14:00</b>									
% Solids	84.0	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>122835FY (B412402-02) Soil    Sampled: 12/21/04 10:00    Received: 12/22/04 14:00</b>									
% Solids	85.2	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11744FY (B412402-03) Soil    Sampled: 12/21/04 15:35    Received: 12/22/04 14:00</b>									
% Solids	82.3	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11736FY (B412402-04) Soil    Sampled: 12/21/04 15:31    Received: 12/22/04 14:00</b>									
% Solids	80.3	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	
<b>S11744BY (B412402-05) Soil    Sampled: 12/21/04 15:37    Received: 12/22/04 14:00</b>									
% Solids	85.6	0.200	%	1	4120626	12/23/04	12/28/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/30/04 07:59

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120637 - EPA 3050B**

**Blank (4120637-BLK1)**

Prepared & Analyzed: 12/27/04

Lead ND 5.00 mg/kg wet

**LCS (4120637-BS1)**

Prepared & Analyzed: 12/27/04

Lead 176 5.00 mg/kg wet 200 88.0 82.5-110

**Matrix Spike (4120637-MS1)**

Source: B412401-01

Prepared & Analyzed: 12/27/04

Lead 2520 76.4 mg/kg dry 278 2140 137 51.5-110 H

**Matrix Spike Dup (4120637-MSD1)**

Source: B412401-01

Prepared & Analyzed: 12/27/04

Lead 1960 76.4 mg/kg dry 270 2140 NR 51.5-110 25.0 34.8 L

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/30/04 07:59

**TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4120697 - EPA 3010A TCLP**

**Blank (4120697-BLK1)**

Prepared & Analyzed: 12/29/04

Lead ND 0.00500 mg/l

**LCS (4120697-BS1)**

Prepared & Analyzed: 12/29/04

Lead 0.0278 0.00500 mg/l 0.0300 92.7 70.8-140

**Matrix Spike (4120697-MS1)**

Source: B412383-04

Prepared & Analyzed: 12/29/04

Lead 0.0516 0.00500 mg/l 0.0300 0.0259 85.7 43.1-162

**Matrix Spike Dup (4120697-MSD1)**

Source: B412383-04

Prepared & Analyzed: 12/29/04

Lead 0.0515 0.00500 mg/l 0.0300 0.0259 85.3 43.1-162 0.194 29.2

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/30/04 07:59

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120626 - General Prep</b>									
<b>Blank (4120626-BLK1)</b>									Prepared: 12/23/04 Analyzed: 12/28/04
% Solids	ND	0.200	%						
<b>Blank (4120626-BLK2)</b>									Prepared: 12/23/04 Analyzed: 12/28/04
% Solids	ND	0.200	%						
<b>Blank (4120626-BLK3)</b>									Prepared: 12/23/04 Analyzed: 12/28/04
% Solids	ND	0.200	%						
<b>Duplicate (4120626-DUP1)</b>									Source: B412396-01 Prepared: 12/23/04 Analyzed: 12/28/04
% Solids	85.7	0.200	%		83.6		2.48	20	
<b>Duplicate (4120626-DUP2)</b>									Source: B412401-01 Prepared: 12/23/04 Analyzed: 12/28/04
% Solids	74.7	0.200	%		72.0		3.68	20	
<b>Duplicate (4120626-DUP3)</b>									Source: B412409-01 Prepared: 12/23/04 Analyzed: 12/28/04
% Solids	80.9	0.200	%		86.1		6.23	20	

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
12/30/04 07:59

### Notes and Definitions

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160  
Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261  
Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001  
Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330  
Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

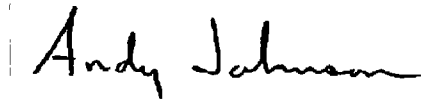
03 January 2005

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 12/28/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style.

Andy Johnson  
Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
01/03/05 07:58

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LPS.003	B412458-01	Soil	12/23/04 10:45	12/28/04 14:30
LPS.004	B412458-02	Soil	12/23/04 10:47	12/28/04 14:30
G12239FY	B412458-03	Soil	12/22/04 14:20	12/28/04 14:30

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester


Reported:  
01/03/05 07:58

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G12239FY (B412458-03) Soil Sampled: 12/22/04 14:20 Received: 12/28/04 14:30									
Lead	2410	65.1	mg/kg dry	11	4120729	12/30/04	12/30/04	EPA 6010B	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Register	Reported: 01/03/05 07:58
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**TCLP Metals by EPA 1311/6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>LPS.003 (B412458-01) Soil    Sampled: 12/23/04 10:45    Received: 12/28/04 14:30</b>									
<b>Lead</b>	<b>0.566</b>	0.120	mg/l	1	4120742	12/30/04	12/30/04	EPA 7421	
<b>LPS.004 (B412458-02) Soil    Sampled: 12/23/04 10:47    Received: 12/28/04 14:30</b>									
<b>Lead</b>	<b>0.524</b>	0.120	mg/l	1	4120742	12/30/04	12/30/04	EPA 7421	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
01/03/05 07:58

### Percent Solids

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G12239FY (B412458-03) Soil    Sampled: 12/22/04 14:20    Received: 12/28/04 14:30									
% Solids	84.5	0.200	%	1	4120708	12/29/04	12/30/04	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

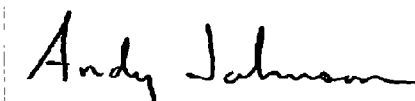
Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/03/05 07:58

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4120729 - EPA 3050B</b>										
<b>Blank (4120729-BLK1)</b>										
				Prepared & Analyzed: 12/30/04						
Lead	ND	5.00	mg/kg wet							
<b>LCS (4120729-BS1)</b>										
				Prepared & Analyzed: 12/30/04						
Lead	184	5.00	mg/kg wet	200		92.0	82.5-110			
<b>Matrix Spike (4120729-MS1)</b>										
				<b>Source: B412458-03</b>		Prepared & Analyzed: 12/30/04				
Lead	2700	65.1	mg/kg dry	242	2410	120	51.5-110			H
<b>Matrix Spike Dup (4120729-MSD1)</b>										
				<b>Source: B412458-03</b>		Prepared & Analyzed: 12/30/04				
Lead	3020	65.1	mg/kg dry	228	2410	268	51.5-110	11.2	34.8	H

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/03/05 07:58

**TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 4120742 - EPA 3010A TCLP**

**Blank (4120742-BLK1)**

Lead ND 0.00500 mg/l

Prepared & Analyzed: 12/30/04

**LCS (4120742-BS1)**

Lead 0.0214 0.00500 mg/l 0.0240 89.2 70.8-140

Prepared & Analyzed: 12/30/04

**Matrix Spike (4120742-MS1)**

Source: B412441-01

Prepared & Analyzed: 12/30/04

Lead 0.0217 0.00500 mg/l 0.0240 0.000521 88.2 43.1-162

**Matrix Spike Dup (4120742-MSD1)**

Source: B412441-01

Prepared & Analyzed: 12/30/04

Lead 0.0215 0.00500 mg/l 0.0240 0.000521 87.4 43.1-162 0.926 29.2

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/03/05 07:58

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 4120708 - General Prep**

<b>Blank (4120708-BLK1)</b>				Prepared: 12/29/04 Analyzed: 12/30/04						
% Solids	ND	0.200	%							
<b>Blank (4120708-BLK2)</b>				Prepared: 12/29/04 Analyzed: 12/30/04						
% Solids	ND	0.200	%							
<b>Duplicate (4120708-DUP1)</b>				Source: B412447-01 Prepared: 12/29/04 Analyzed: 12/30/04						
% Solids	84.2	0.200	%		83.6			0.715	20	
<b>Duplicate (4120708-DUP2)</b>				Source: B412459-01 Prepared: 12/29/04 Analyzed: 12/30/04						
% Solids	80.7	0.200	%		82.3			1.96	20	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

**Reported:**  
01/03/05 07:58

### Notes and Definitions

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

07 January 2005

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 01/03/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**

A handwritten signature in black ink that reads "Andy Johnson". The signature is written in a cursive, flowing style.

Andy Johnson  
Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/07/05 09:54

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P11820BY	B501014-01	Soil	12/27/04 10:45	01/03/05 14:15
P11824BY	B501014-02	Soil	12/28/04 13:15	01/03/05 14:15
P11824BYDUP	B501014-03	Soil	12/28/04 13:15	01/03/05 14:15
P11834BY	B501014-04	Soil	12/27/04 11:15	01/03/05 14:15
P11828BY	B501014-05	Soil	12/27/04 11:00	01/03/05 14:15
P11820FY	B501014-06	Soil	12/27/04 15:00	01/03/05 14:15
P11828FY	B501014-07	Soil	12/29/04 15:30	01/03/05 14:15
P11824FY	B501014-08	Soil	12/29/04 15:45	01/03/05 14:15
P11834FY	B501014-09	Soil	12/28/04 13:30	01/03/05 14:15

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

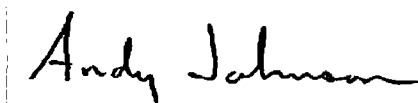
Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/07/05 09:54

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>P11820BY (B501014-01) Soil Sampled: 12/27/04 10:45 Received: 01/03/05 14:15</b>									
Lead	957	67.3	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11824BY (B501014-02) Soil Sampled: 12/28/04 13:15 Received: 01/03/05 14:15</b>									
Lead	824	65.3	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11824BYDUP (B501014-03) Soil Sampled: 12/28/04 13:15 Received: 01/03/05 14:15</b>									
Lead	834	67.6	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11834BY (B501014-04) Soil Sampled: 12/27/04 11:15 Received: 01/03/05 14:15</b>									
Lead	846	64.5	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11828BY (B501014-05) Soil Sampled: 12/27/04 11:00 Received: 01/03/05 14:15</b>									
Lead	1110	66.7	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11820FY (B501014-06) Soil Sampled: 12/27/04 15:00 Received: 01/03/05 14:15</b>									
Lead	906	64.1	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11828FY (B501014-07) Soil Sampled: 12/29/04 15:30 Received: 01/03/05 14:15</b>									
Lead	857	72.9	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11824FY (B501014-08) Soil Sampled: 12/29/04 15:45 Received: 01/03/05 14:15</b>									
Lead	887	65.1	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	
<b>P11834FY (B501014-09) Soil Sampled: 12/28/04 13:30 Received: 01/03/05 14:15</b>									
Lead	869	61.7	mg/kg dry	11	5010033	01/04/05	01/04/05	EPA 6010B	

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/07/05 09:54

**Percent Solids**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>P11820BY (B501014-01) Soil    Sampled: 12/27/04 10:45    Received: 01/03/05 14:15</b>									
% Solids	81.8	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	G25
<b>P11824BY (B501014-02) Soil    Sampled: 12/28/04 13:15    Received: 01/03/05 14:15</b>									
% Solids	84.3	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	
<b>P11824BYDUP (B501014-03) Soil    Sampled: 12/28/04 13:15    Received: 01/03/05 14:15</b>									
% Solids	81.3	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	
<b>P11834BY (B501014-04) Soil    Sampled: 12/27/04 11:15    Received: 01/03/05 14:15</b>									
% Solids	85.3	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	G25
<b>P11828BY (B501014-05) Soil    Sampled: 12/27/04 11:00    Received: 01/03/05 14:15</b>									
% Solids	82.5	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	G25
<b>P11820FY (B501014-06) Soil    Sampled: 12/27/04 15:00    Received: 01/03/05 14:15</b>									
% Solids	85.8	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	G25
<b>P11828FY (B501014-07) Soil    Sampled: 12/29/04 15:30    Received: 01/03/05 14:15</b>									
% Solids	75.4	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	
<b>P11824FY (B501014-08) Soil    Sampled: 12/29/04 15:45    Received: 01/03/05 14:15</b>									
% Solids	84.5	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	
<b>P11834FY (B501014-09) Soil    Sampled: 12/28/04 13:30    Received: 01/03/05 14:15</b>									
% Solids	89.1	0.200	%	1	5010045	01/04/05	01/05/05	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/07/05 09:54

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 5010033 - EPA 3050B**

**Blank (5010033-BLK1)**

Prepared & Analyzed: 01/04/05

Lead ND 5.00 mg/kg wet

**LCS (5010033-BS1)**

Prepared & Analyzed: 01/04/05

Lead 192 5.00 mg/kg wet 200 96.0 82.5-110

**Matrix Spike (5010033-MS1)**

Source: B501012-02

Prepared & Analyzed: 01/04/05

Lead 207 6.49 mg/kg dry 252 12.8 77.1 51.5-110

**Matrix Spike Dup (5010033-MSD1)**

Source: B501012-02

Prepared & Analyzed: 01/04/05

Lead 204 6.49 mg/kg dry 257 12.8 74.4 51.5-110 1.46 34.8

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/07/05 09:54

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5010045 - General Prep</b>									
<b>Blank (5010045-BLK1)</b>					Prepared: 01/04/05 Analyzed: 01/05/05				
% Solids	ND	0.200	%						
<b>Blank (5010045-BLK2)</b>					Prepared: 01/04/05 Analyzed: 01/05/05				
% Solids	ND	0.200	%						
<b>Duplicate (5010045-DUP1)</b>					Source: B501014-01 Prepared: 01/04/05 Analyzed: 01/05/05				
% Solids	81.2	0.200	%		81.8		0.736	20	G25
<b>Duplicate (5010045-DUP2)</b>					Source: B501014-02 Prepared: 01/04/05 Analyzed: 01/05/05				
% Solids	83.7	0.200	%		84.3		0.714	20	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/07/05 09:54

### Notes and Definitions

G25      There is no guidance for the hold time of soil samples for this analysis. The hold time for water samples is seven days.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

L      This quality control measurement is below the laboratory established limit.

H      This quality control measurement is above the laboratory established limit.

^      The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^      The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160  
Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261  
Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001  
Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330  
Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

17 January 2005

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 01/13/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**



Andy Johnson  
Project Manager



1380 Busch Parkway  
Buffalo Grove, Illinois 60089

Email: [info@glalabs.com](mailto:info@glalabs.com)  
(847) 808-7766 FAX (847) 808-7772

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 11:31

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S11725FY	B501115-01	Soil	01/11/05 10:12	01/13/05 08:45
P12227FY	B501115-02	Soil	01/11/05 10:20	01/13/05 08:45
G12223FY	B501115-03	Soil	01/11/05 10:30	01/13/05 08:45

#### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

Andy Johnson, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



1380 Busch Parkway  
Buffalo Grove, Illinois 60089

Email: [info@glalabs.com](mailto:info@glalabs.com)  
(847) 808-7766 FAX (847) 808-7772

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 11:31

**Total Metals by EPA 6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S11725FY (B501115-01) Soil Sampled: 01/11/05 10:12 Received: 01/13/05 08:45</b>									
Lead	624	6.62	mg/kg dry	1	5010191	01/13/05	01/14/05	EPA 6010B	
<b>P12227FY (B501115-02) Soil Sampled: 01/11/05 10:20 Received: 01/13/05 08:45</b>									
Lead	2180	6.54	mg/kg dry	1	5010191	01/13/05	01/14/05	EPA 6010B	
<b>G12223FY (B501115-03) Soil Sampled: 01/11/05 10:30 Received: 01/13/05 08:45</b>									
Lead	5180	14.2	mg/kg dry	2	5010191	01/13/05	01/14/05	EPA 6010B	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



1380 Busch Parkway  
Buffalo Grove, Illinois 60089

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(847) 808-7766 FAX (847) 808-7772

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 11:31

### Percent Solids

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>S11725FY (B501115-01) Soil</b> Sampled: 01/11/05 10:12 Received: 01/13/05 08:45									
% Solids	75.6	0.200	%	1	5010186	01/13/05	01/14/05	EPA 5035 7.5	
<b>P12227FY (B501115-02) Soil</b> Sampled: 01/11/05 10:20 Received: 01/13/05 08:45									
% Solids	76.5	0.200	%	1	5010186	01/13/05	01/14/05	EPA 5035 7.5	
<b>G12223FY (B501115-03) Soil</b> Sampled: 01/11/05 10:30 Received: 01/13/05 08:45									
% Solids	70.3	0.200	%	1	5010186	01/13/05	01/14/05	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



1380 Busch Parkway  
Buffalo Grove, Illinois 60089

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 11:31

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5010191 - EPA 3050B</b>										
<b>Blank (5010191-BLK1)</b>					Prepared: 01/13/05 Analyzed: 01/14/05					
Lead	ND	5.00	mg/kg wet							
<b>LCS (5010191-BS1)</b>					Prepared: 01/13/05 Analyzed: 01/14/05					
Lead	97.2	5.00	mg/kg wet	100		97.2	82.5-110			
<b>Matrix Spike (5010191-MS1)</b>					Source: B501110-01 Prepared: 01/13/05 Analyzed: 01/14/05					
Lead	111	6.17	mg/kg dry	121	32.4	65.0	51.5-110			
<b>Matrix Spike Dup (5010191-MSD1)</b>					Source: B501110-01 Prepared: 01/13/05 Analyzed: 01/14/05					
Lead	127	6.17	mg/kg dry	130	32.4	72.8	51.5-110	13.4	34.8	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Andy Johnson*

Andy Johnson, Project Manager





1380 Busch Parkway  
Buffalo Grove, Illinois 60089

Email: [info@glalabs.com](mailto:info@glalabs.com)  
(847) 808-7766 FAX (847) 808-7772

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/17/05 11:31

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5010186 - General Prep</b>										
<b>Blank (5010186-BLK1)</b>					Prepared: 01/13/05 Analyzed: 01/14/05					
% Solids	ND	0.200	%							
<b>Blank (5010186-BLK2)</b>					Prepared: 01/13/05 Analyzed: 01/14/05					
% Solids	ND	0.200	%							
<b>Duplicate (5010186-DUP1)</b>					Source: B501105-01 Prepared: 01/13/05 Analyzed: 01/14/05					
% Solids	92.4	0.200	%		92.5			0.108	20	
<b>Duplicate (5010186-DUP2)</b>					Source: B501107-01 Prepared: 01/13/05 Analyzed: 01/14/05					
% Solids	82.6	0.200	%		82.5			0.121	20	

Great Lakes Analytical--Buffalo Grove

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Andy Johnson, Project Manager

Page 5 of 6

Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester**Reported:**  
01/17/05 11:31**Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

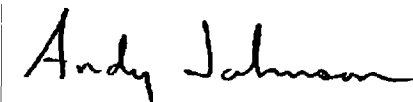
Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

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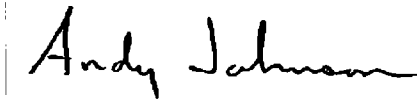
17 January 2005

Rhonda Regester  
Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559  
RE: NL Dutch Boy

Enclosed are the results of analyses for samples received by the laboratory on 01/13/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**Great Lakes Analytical**



Andy Johnson  
Project Manager



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Entact  
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Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC.001	B501114-01	Soil	01/12/05 14:22	01/13/05 08:45

#### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

Great Lakes Analytical--Buffalo Grove

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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

**General Chemistry**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WC.001 (B501114-01) Soil    Sampled: 01/12/05 14:22    Received: 01/13/05 08:45</b>									
Flashpoint	>220 °F		°F	1	5010258	01/17/05	01/17/05	ASTM D92-85	
Free Liquid	No sample flowed.		N/A	"	5010259	01/17/05	01/17/05	9095A	
<b>pH</b>	<b>7.42</b>		pH Units	"	5010194	01/13/05	01/13/05	EPA 9045C	G26
Phenol	ND	0.872	mg/kg dry	"	5010254	01/17/05	01/17/05	EPA 9065	
Reactive Cyanide	ND	0.180	"	"	5010241	01/17/05	01/17/05	EPA 9014 Ch 7	
Reactive Sulfide	<b>16.6</b>	9.00	"	"	5010242	01/17/05	01/17/05	EPA 9034 Ch 7	

Great Lakes Analytical--Buffalo Grove

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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

**TCLP Metals by EPA 1311/6000/7000 Series Methods**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WC.001 (B501114-01) Soil    Sampled: 01/12/05 14:22    Received: 01/13/05 08:45</b>									
Mercury	ND	0.000200	mg/l	1	5010210	01/14/05	01/14/05	EPA 7470A	
Arsenic	ND	0.0500	"	"	5010215	01/14/05	01/14/05	EPA 6010B	
<b>Barium</b>	<b>1.76</b>	1.00	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.00880</b>	0.00500	"	"	"	"	"	"	
Chromium	ND	0.100	"	"	"	"	"	"	
Selenium	ND	0.0500	"	"	"	"	"	"	
Silver	ND	0.0500	"	"	"	"	"	"	
<b>Lead</b>	<b>0.778</b>	0.120	"	"	"	"	01/14/05	EPA 7421	QC

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

### TCLP Volatile Organic Compounds by EPA Method 1311/8260B

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WC.001 (B501114-01) Soil Sampled: 01/12/05 14:22 Received: 01/13/05 08:45</b>									
Benzene	ND	0.400	mg/l	20	5010227	01/14/05	01/17/05	EPA 8260B	
Carbon tetrachloride	ND	0.400	"	"	"	"	"	"	
Chlorobenzene	ND	0.400	"	"	"	"	"	"	
Chloroform	ND	0.400	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.400	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.400	"	"	"	"	"	"	
Methyl ethyl ketone	ND	100	"	"	"	"	"	"	
Tetrachloroethene	ND	0.400	"	"	"	"	"	"	
Trichloroethylene	ND	0.400	"	"	"	"	"	"	
Vinyl chloride	ND	0.160	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		88.8 %	55.9-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		83.6 %	47.5-150		"	"	"	"	
Surrogate: Toluene-d8		90.4 %	55.4-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	40.4-137		"	"	"	"	

Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/17/05 17:15

### Polychlorinated Biphenyls by EPA Method 8082

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WC.001 (B501114-01) Soil Sampled: 01/12/05 14:22 Received: 01/13/05 08:45									
PCB-1016	ND	34.6	ug/kg dry	10	5010184	01/13/05	01/16/05	EPA 8082	
PCB-1221	ND	34.6	"	"	"	"	"	"	
PCB-1232	ND	34.6	"	"	"	"	"	"	
PCB-1242	ND	34.6	"	"	"	"	"	"	
PCB-1248	ND	34.6	"	"	"	"	"	"	
PCB-1254	ND	34.6	"	"	"	"	"	"	
PCB-1260	ND	34.6	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		89.0 %	10-114		"	"	"	"	
Surrogate: Decachlorobiphenyl		80.4 %	10-116		"	"	"	"	

Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

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Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

### TCLP Semivolatiles by EPA Method 1311/8270C

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WC.001 (B501114-01) Soil Sampled: 01/12/05 14:22 Received: 01/13/05 08:45 QC									
o-Cresol	ND	20.0	mg/l	1	5010229	01/14/05	01/14/05	EPA 8270C	
m,p-Cresols	ND	20.0	"	"	"	"	"	"	
Cresol	ND	20.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.750	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.0200	"	"	"	"	"	"	
Hexachlorobenzene	ND	0.0200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0500	"	"	"	"	"	"	
Hexachloroethane	ND	0.300	"	"	"	"	"	"	
Nitrobenzene	ND	0.200	"	"	"	"	"	"	
Pentachlorophenol	ND	10.0	"	"	"	"	"	"	
Pyridine	ND	0.500	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	40.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.200	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		22.6 %	10-110		"	"	"	"	
Surrogate: Phenol-d6		12.2 %	10-110		"	"	"	"	
Surrogate: Nitrobenzene-d5		41.6 %	10-110		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		47.6 %	10-110		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		43.2 %	10-110		"	"	"	"	
Surrogate: p-Terphenyl-d14		69.6 %	10-122		"	"	"	"	

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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/17/05 17:15

### Percent Solids

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WC.001 (B501114-01) Soil Sampled: 01/12/05 14:22 Received: 01/13/05 08:45									
% Solids	72.2	0.200	%	1	5010186	01/13/05	01/14/05	EPA 5035 7.5	

Great Lakes Analytical--Buffalo Grove

Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
01/17/05 17:15

### General Chemistry - Quality Control

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5010194 - General Prep WC

**Duplicate (5010194-DUP1)** **Source: B501105-01** Prepared & Analyzed: 01/13/05

pH	8.25		pH Units	8.24				0.121	1	
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#### Batch 5010241 - General Prep WC

**Blank (5010241-BLK1)** Prepared & Analyzed: 01/17/05

Reactive Cyanide	ND	0.130	mg/kg wet							
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**LCS (5010241-BS1)** Prepared & Analyzed: 01/17/05

Reactive Cyanide	9.89	0.130	mg/kg wet	11.8		83.8	42.1-110			
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**Matrix Spike (5010241-MS1)** **Source: B501105-01** Prepared & Analyzed: 01/17/05

Reactive Cyanide	7.89	0.141	mg/kg dry	12.4	ND	63.6	30.6-110			
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**Matrix Spike Dup (5010241-MSD1)** **Source: B501105-01** Prepared & Analyzed: 01/17/05

Reactive Cyanide	9.92	0.141	mg/kg dry	12.4	ND	80.0	30.6-110	22.8	40	
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#### Batch 5010242 - General Prep WC

**Blank (5010242-BLK1)** Prepared & Analyzed: 01/17/05

Reactive Sulfide	ND	6.50	mg/kg wet							
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**LCS (5010242-BS1)** Prepared & Analyzed: 01/17/05

Reactive Sulfide	20.0	6.50	mg/kg wet	50.0		40.0	16.2-144			
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**Matrix Spike (5010242-MS1)** **Source: B501105-01** Prepared & Analyzed: 01/17/05

Reactive Sulfide	15.8	7.03	mg/kg dry	52.6	7.85	15.1	10-111			
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Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

**General Chemistry - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5010242 - General Prep WC**

**Matrix Spike Dup (5010242-MSD1)** Source: B501105-01 Prepared & Analyzed: 01/17/05

Reactive Sulfide	15.8	7.03	mg/kg dry	52.6	7.85	15.1	10-111	0.00	34.5	
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**Batch 5010254 - General Prep WC**

**Blank (5010254-BLK1)** Prepared & Analyzed: 01/17/05

Phenol	ND	0.630	mg/kg wet							
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**LCS (5010254-BS1)** Prepared & Analyzed: 01/17/05

Phenol	10.8	0.630	mg/kg wet	10.0		108	85.5-119			
--------	------	-------	-----------	------	--	-----	----------	--	--	--

**Matrix Spike (5010254-MS1)** Source: B501143-01 Prepared & Analyzed: 01/17/05

Phenol	8.40	0.630	mg/kg wet	9.38	0.855	80.4	45-119			
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**Matrix Spike Dup (5010254-MSD1)** Source: B501143-01 Prepared & Analyzed: 01/17/05

Phenol	8.10	0.630	mg/kg wet	9.35	0.855	77.5	45-119	3.64	34.7	
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**Batch 5010258 - General Prep WC**

**Duplicate (5010258-DUP1)** Source: B501114-01 Prepared & Analyzed: 01/17/05

Flashpoint	>220 °F		°F		0.00				20	
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Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager

Page 9 of 19



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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/17/05 17:15

**TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 5010210 - EPA 7470A**

**Blank (5010210-BLK1)**

Prepared & Analyzed: 01/14/05

Mercury ND 0.000200 mg/l

**LCS (5010210-BS1)**

Prepared & Analyzed: 01/14/05

Mercury 0.00184 0.000200 mg/l 0.00150 123 78.8-127

**Matrix Spike (5010210-MS1)**

Source: B501114-01

Prepared & Analyzed: 01/14/05

Mercury 0.00190 0.000200 mg/l 0.00150 ND 127 76-128

**Matrix Spike Dup (5010210-MSD1)**

Source: B501114-01

Prepared & Analyzed: 01/14/05

Mercury 0.00184 0.000200 mg/l 0.00150 ND 123 76-128 3.21 10

**Batch 5010215 - EPA 3010A TCLP**

**Blank (5010215-BLK1)**

Prepared & Analyzed: 01/14/05

Arsenic ND 0.0500 mg/l

Barium ND 1.00 "

Cadmium ND 0.00500 "

Chromium ND 0.100 "

Lead ND 0.00500 "

Selenium ND 0.0500 "

Silver ND 0.0500 "

**LCS (5010215-BS1)**

Prepared & Analyzed: 01/14/05

Arsenic 0.965 0.0500 mg/l 1.00 96.5 85.8-110

Barium 2.04 1.00 " 2.00 102 90-111

Cadmium 1.01 0.00500 " 1.00 101 90-115

Chromium 2.00 0.100 " 2.00 100 83.6-110

Lead 0.0120 0.00500 " 0.0120 100 58.1-128

Selenium 1.04 0.0500 " 1.00 104 87.3-117

Silver 0.204 0.0500 " 0.200 102 65.4-125

Great Lakes Analytical--Buffalo Grove

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Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

**TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5010215 - EPA 3010A TCLP**

**Matrix Spike (5010215-MS1)**

**Source: B501114-01**

**Prepared & Analyzed: 01/14/05**

Arsenic	0.962	0.0500	mg/l	1.00	0.0190	94.3	81.5-118			
Barium	3.77	1.00	"	2.00	1.76	100	90-112			
Cadmium	0.984	0.00500	"	1.00	0.00880	97.5	90-114			
Chromium	1.97	0.100	"	2.00	0.00820	98.1	81.5-110			
Lead	0.797	0.120	"	0.0120	0.778	158	27.5-149			H
Selenium	1.01	0.0500	"	1.00	ND	101	86.8-119			
Silver	0.203	0.0500	"	0.200	0.00640	98.3	10-150			

**Matrix Spike Dup (5010215-MSD1)**

**Source: B501114-01**

**Prepared & Analyzed: 01/14/05**

Arsenic	0.963	0.0500	mg/l	1.00	0.0190	94.4	81.5-118	0.104	23.6	
Barium	3.78	1.00	"	2.00	1.76	101	90-112	0.265	24	
Cadmium	0.978	0.00500	"	1.00	0.00880	96.9	90-114	0.612	23.4	
Chromium	1.96	0.100	"	2.00	0.00820	97.6	81.5-110	0.509	23.1	
Lead	0.697	0.120	"	0.0120	0.778	NR	27.5-149	13.4	18.6	L
Selenium	1.03	0.0500	"	1.00	ND	103	86.8-119	1.96	25.6	
Silver	0.205	0.0500	"	0.200	0.00640	99.3	10-150	0.980	35	

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager



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Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

**TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	--------------	-------

**Batch 5010227 - EPA 5030B TCLP/SPLP**

**Blank (5010227-BLK1)**

Prepared: 01/14/05 Analyzed: 01/17/05

Benzene	ND	0.400	mg/l					
Carbon tetrachloride	ND	0.400	"					
Chlorobenzene	ND	0.400	"					
Chloroform	ND	0.400	"					
1,2-Dichloroethane	ND	0.400	"					
1,1-Dichloroethylene	ND	0.400	"					
Methyl ethyl ketone	ND	100	"					
Tetrachloroethene	ND	0.400	"					
Trichloroethylene	ND	0.400	"					
Vinyl chloride	ND	0.160	"					
Surrogate: Dibromofluoromethane	0.0444		"	0.0500		88.8	55.9-150	
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0500		81.8	47.5-150	
Surrogate: Toluene-d8	0.0460		"	0.0500		92.0	55.4-145	
Surrogate: 4-Bromofluorobenzene	0.0455		"	0.0500		91.0	40.4-137	

**LCS (5010227-BS1)**

Prepared: 01/14/05 Analyzed: 01/17/05

Benzene	0.917	0.400	mg/l	1.00		91.7	54.8-130	
Carbon tetrachloride	0.927	0.400	"	1.00		92.7	43.4-141	
Chlorobenzene	0.944	0.400	"	1.00		94.4	56.2-127	
Chloroform	0.932	0.400	"	1.00		93.2	53.7-135	
1,2-Dichloroethane	0.866	0.400	"	1.00		86.6	54.6-140	
1,1-Dichloroethylene	0.747	0.400	"	1.00		74.7	45.9-129	
Methyl ethyl ketone	0.954	100	"	1.00		95.4	10-150	
Tetrachloroethene	0.821	0.400	"	1.00		82.1	46.7-131	
Trichloroethylene	1.20	0.400	"	1.00		120	59.2-135	
Vinyl chloride	1.03	0.160	"	1.00		103	28.4-150	
Surrogate: Dibromofluoromethane	0.0449		"	0.0500		89.8	55.9-150	
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0500		82.8	47.5-150	
Surrogate: Toluene-d8	0.0472		"	0.0500		94.4	55.4-145	
Surrogate: 4-Bromofluorobenzene	0.0479		"	0.0500		95.8	40.4-137	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager

Entact 1010 Executive Ct. Suite 280 Westmont, IL 60559	Project: NL Dutch Boy Project Number: C969 Project Manager: Rhonda Regester	Reported: 01/17/05 17:15
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**TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5010227 - EPA 5030B TCLP/SPLP**

<b>Matrix Spike (5010227-MS1)</b>		<b>Source: B501114-01</b>		<b>Prepared: 01/14/05</b>		<b>Analyzed: 01/17/05</b>			
Benzene	0.870	0.400	mg/l	1.00	ND	87.0	50.5-150		
Carbon tetrachloride	0.846	0.400	"	1.00	ND	84.6	13.8-160		
Chlorobenzene	0.951	0.400	"	1.00	ND	95.1	66.9-142		
Chloroform	0.895	0.400	"	1.00	ND	89.5	67.5-144		
1,2-Dichloroethane	0.884	0.400	"	1.00	ND	88.4	69.6-144		
1,1-Dichloroethylene	0.667	0.400	"	1.00	ND	66.7	24.4-156		
Methyl ethyl ketone	0.545	100	"	1.00	ND	54.5	31.3-167		
Tetrachloroethene	0.794	0.400	"	1.00	ND	79.4	13.6-175		
Trichloroethylene	0.788	0.400	"	1.00	ND	78.8	26.2-168		
Vinyl chloride	0.904	0.160	"	1.00	ND	90.4	29-152		
Surrogate: Dibromofluoromethane	0.0456		"	0.0500		91.2	55.9-150		
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0500		82.0	47.5-150		
Surrogate: Toluene-d8	0.0484		"	0.0500		96.8	55.4-145		
Surrogate: 4-Bromofluorobenzene	0.0482		"	0.0500		96.4	40.4-137		
<b>Matrix Spike Dup (5010227-MSD1)</b>		<b>Source: B501114-01</b>		<b>Prepared: 01/14/05</b>		<b>Analyzed: 01/17/05</b>			
Benzene	0.870	0.400	mg/l	1.00	ND	87.0	50.5-150	0.00	35.4
Carbon tetrachloride	0.847	0.400	"	1.00	ND	84.7	13.8-160	0.118	56.3
Chlorobenzene	0.966	0.400	"	1.00	ND	96.6	66.9-142	1.56	25.8
Chloroform	0.907	0.400	"	1.00	ND	90.7	67.5-144	1.33	35.8
1,2-Dichloroethane	0.873	0.400	"	1.00	ND	87.3	69.6-144	1.25	28.3
1,1-Dichloroethylene	0.690	0.400	"	1.00	ND	69.0	24.4-156	3.39	38.4
Methyl ethyl ketone	0.571	100	"	1.00	ND	57.1	31.3-167	4.66	46
Tetrachloroethene	0.811	0.400	"	1.00	ND	81.1	13.6-175	2.12	39.7
Trichloroethylene	0.739	0.400	"	1.00	ND	73.9	26.2-168	6.42	33.7
Vinyl chloride	1.00	0.160	"	1.00	ND	100	29-152	10.1	44.4
Surrogate: Dibromofluoromethane	0.0450		"	0.0500		90.0	55.9-150		
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0500		81.4	47.5-150		
Surrogate: Toluene-d8	0.0485		"	0.0500		97.0	55.4-145		
Surrogate: 4-Bromofluorobenzene	0.0485		"	0.0500		97.0	40.4-137		

Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

**Reported:**  
01/17/05 17:15

### Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
<b>Batch 5010184 - EPA 3550B</b>								
<b>Blank (5010184-BLK1)</b>								
				Prepared: 01/13/05 Analyzed: 01/16/05				
PCB-1016	ND	25.0	ug/kg wet					
PCB-1221	ND	25.0	"					
PCB-1232	ND	25.0	"					
PCB-1242	ND	25.0	"					
PCB-1248	ND	25.0	"					
PCB-1254	ND	25.0	"					
PCB-1260	ND	25.0	"					
Surrogate: Tetrachloro-meta-xylene	20.3		"	33.8		60.1	10-114	
Surrogate: Decachlorobiphenyl	19.5		"	33.8		57.7	10-116	
<b>LCS (5010184-BS1)</b>								
				Prepared: 01/13/05 Analyzed: 01/16/05				
PCB-1016	46.1	25.0	ug/kg wet	83.8		55.0	10-127	
PCB-1260	49.3	25.0	"	83.8		58.8	10-134	
Surrogate: Tetrachloro-meta-xylene	14.7		"	33.5		43.9	10-114	
Surrogate: Decachlorobiphenyl	14.3		"	33.5		42.7	10-116	
<b>Matrix Spike (5010184-MS1)</b>								
				Source: B501110-01 Prepared: 01/13/05 Analyzed: 01/16/05				
PCB-1016	70.0	30.8	ug/kg dry	104	ND	67.3	10-118	
PCB-1260	69.0	30.8	"	104	ND	66.3	10-124	
Surrogate: Tetrachloro-meta-xylene	22.6		"	41.5		54.5	10-114	
Surrogate: Decachlorobiphenyl	19.9		"	41.5		48.0	10-116	
<b>Matrix Spike Dup (5010184-MSD1)</b>								
				Source: B501110-01 Prepared: 01/13/05 Analyzed: 01/16/05				
PCB-1016	79.6	30.8	ug/kg dry	100	ND	79.6	10-118	12.8 40
PCB-1260	80.8	30.8	"	100	ND	80.8	10-124	15.8 40
Surrogate: Tetrachloro-meta-xylene	27.2		"	40.0		68.0	10-114	
Surrogate: Decachlorobiphenyl	24.8		"	40.0		62.0	10-116	

Great Lakes Analytical--Buffalo Grove

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Andy Johnson, Project Manager



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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/17/05 17:15

### TCLP Semivolatiles by EPA Method 1311/8270C - Quality Control

#### Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5010229 - EPA 3510C TCLP/SPLP

##### Blank (5010229-BLK1)

Prepared & Analyzed: 01/14/05

O2

o-Cresol	ND	20.0	mg/l
m,p-Cresols	ND	20.0	"
Cresol	ND	20.0	"
1,4-Dichlorobenzene	ND	0.750	"
2,4-Dinitrotoluene	ND	0.0200	"
Hexachlorobenzene	ND	0.0200	"
Hexachlorobutadiene	ND	0.0500	"
Hexachloroethane	ND	0.300	"
Nitrobenzene	ND	0.200	"
Pentachlorophenol	ND	10.0	"
Pyridine	ND	0.500	"
2,4,5-Trichlorophenol	ND	40.0	"
2,4,6-Trichlorophenol	ND	0.200	"

Surrogate: 2-Fluorophenol	0.0584	"	0.500	11.7	10-110
Surrogate: Phenol-d6	0.0306	"	0.500	6.12	10-110
Surrogate: Nitrobenzene-d5	0.0822	"	0.250	32.9	10-110
Surrogate: 2-Fluorobiphenyl	0.112	"	0.250	44.8	10-110
Surrogate: 2,4,6-Tribromophenol	0.177	"	0.500	35.4	10-110
Surrogate: p-Terphenyl-d14	0.139	"	0.250	55.6	10-122

L

##### LCS (5010229-BS1)

Prepared & Analyzed: 01/14/05

o-Cresol	0.165	0.0200	mg/l	0.500	33.0	10-110
m,p-Cresols	0.289	0.200	"	1.00	28.9	10-110
Cresol	0.454	0.200	"	1.50	30.3	10-110
1,4-Dichlorobenzene	0.152	0.0750	"	0.500	30.4	10-110
2,4-Dinitrotoluene	0.132	0.0200	"	0.500	26.4	10-110
Hexachlorobenzene	0.147	0.0200	"	0.500	29.4	10-111
Hexachlorobutadiene	0.147	0.0500	"	0.500	29.4	10-111
Hexachloroethane	0.143	0.0300	"	0.500	28.6	10-110
Nitrobenzene	0.178	0.0200	"	0.500	35.6	10-115
Pentachlorophenol	0.176	0.100	"	0.500	35.2	10-111
Pyridine	0.106	0.0500	"	0.500	21.2	10-110
2,4,5-Trichlorophenol	0.205	0.0400	"	0.500	41.0	10-113
2,4,6-Trichlorophenol	0.181	0.0200	"	0.500	36.2	10-110

Surrogate: 2-Fluorophenol	0.0985	"	0.500	19.7	10-110
Surrogate: Phenol-d6	0.0526	"	0.500	10.5	10-110

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager



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Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Regester

Reported:  
01/17/05 17:15

**TCLP Semivolatiles by EPA Method 1311/8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5010229 - EPA 3510C TCLP/SPLP**

**LCS (5010229-BS1)**

Prepared & Analyzed: 01/14/05

Surrogate: Nitrobenzene-d5	0.0869		mg/l	0.250		34.8	10-110		
Surrogate: 2-Fluorobiphenyl	0.0965		"	0.250		38.6	10-110		
Surrogate: 2,4,6-Tribromophenol	0.182		"	0.500		36.4	10-110		
Surrogate: p-Terphenyl-d14	0.157		"	0.250		62.8	10-122		

**Matrix Spike (5010229-MS1)**

Source: B501114-01

Prepared & Analyzed: 01/14/05

o-Cresol	0.179	0.0200	mg/l	0.500	ND	35.8	10-110		
m,p-Cresols	0.308	0.200	"	1.00	ND	30.8	10-110		
Cresol	0.486	0.200	"	1.50	ND	32.4	10-110		
1,4-Dichlorobenzene	0.223	0.0750	"	0.500	ND	44.6	10-110		
2,4-Dinitrotoluene	0.189	0.0200	"	0.500	ND	37.8	10-110		
Hexachlorobenzene	0.194	0.0200	"	0.500	ND	38.8	10-110		
Hexachlorobutadiene	0.215	0.0500	"	0.500	ND	43.0	10-110		
Hexachloroethane	0.211	0.0300	"	0.500	ND	42.2	10-110		
Nitrobenzene	0.238	0.200	"	0.500	ND	47.6	10-110		
Pentachlorophenol	0.282	0.100	"	0.500	ND	56.4	10-110		
Pyridine	0.107	0.0500	"	0.500	ND	21.4	10-110		
2,4,5-Trichlorophenol	0.272	0.0400	"	0.500	ND	54.4	10-113		
2,4,6-Trichlorophenol	0.253	0.200	"	0.500	ND	50.6	10-111		
Surrogate: 2-Fluorophenol	0.0960		"	0.500		19.2	10-110		
Surrogate: Phenol-d6	0.0534		"	0.500		10.7	10-110		
Surrogate: Nitrobenzene-d5	0.108		"	0.250		43.2	10-110		
Surrogate: 2-Fluorobiphenyl	0.122		"	0.250		48.8	10-110		
Surrogate: 2,4,6-Tribromophenol	0.236		"	0.500		47.2	10-110		
Surrogate: p-Terphenyl-d14	0.176		"	0.250		70.4	10-122		

**Matrix Spike Dup (5010229-MSD1)**

Source: B501114-01

Prepared & Analyzed: 01/14/05

o-Cresol	0.126	0.0200	mg/l	0.500	ND	25.2	10-110	34.8	40
m,p-Cresols	0.222	0.200	"	1.00	ND	22.2	10-110	32.5	40
Cresol	0.348	0.200	"	1.50	ND	23.2	10-110	33.1	40
1,4-Dichlorobenzene	0.191	0.0750	"	0.500	ND	38.2	10-110	15.5	40
2,4-Dinitrotoluene	0.156	0.0200	"	0.500	ND	31.2	10-110	19.1	40
Hexachlorobenzene	0.164	0.0200	"	0.500	ND	32.8	10-110	16.8	40
Hexachlorobutadiene	0.188	0.0500	"	0.500	ND	37.6	10-110	13.4	40
Hexachloroethane	0.185	0.0300	"	0.500	ND	37.0	10-110	13.1	40
Nitrobenzene	0.207	0.200	"	0.500	ND	41.4	10-110	13.9	40
Pentachlorophenol	0.229	0.100	"	0.500	ND	45.8	10-110	20.7	40

Great Lakes Analytical--Buffalo Grove

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*Andy Johnson*

Andy Johnson, Project Manager



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Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/17/05 17:15

**TCLP Semivolatiles by EPA Method 1311/8270C - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5010229 - EPA 3510C TCLP/SPLP**

**Matrix Spike Dup (5010229-MSD1)**

Source: B501114-01

Prepared & Analyzed: 01/14/05

Pyridine	0.0593	0.0500	mg/l	0.500	ND	11.9	10-110	57.4	40	H
2,4,5-Trichlorophenol	0.232	0.0400	"	0.500	ND	46.4	10-113	15.9	40	
2,4,6-Trichlorophenol	0.208	0.200	"	0.500	ND	41.6	10-111	19.5	40	
Surrogate: 2-Fluorophenol	0.0689		"	0.500		13.8	10-110			
Surrogate: Phenol-d6	0.0349		"	0.500		6.98	10-110			L
Surrogate: Nitrobenzene-d5	0.0929		"	0.250		37.2	10-110			
Surrogate: 2-Fluorobiphenyl	0.107		"	0.250		42.8	10-110			
Surrogate: 2,4,6-Tribromophenol	0.193		"	0.500		38.6	10-110			
Surrogate: p-Terphenyl-d14	0.144		"	0.250		57.6	10-122			

Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559

Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register

Reported:  
01/17/05 17:15

**Percent Solids - Quality Control**  
**Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5010186 - General Prep</b>									
<b>Blank (5010186-BLK1)</b>					Prepared: 01/13/05 Analyzed: 01/14/05				
% Solids	ND	0.200	%						
<b>Blank (5010186-BLK2)</b>					Prepared: 01/13/05 Analyzed: 01/14/05				
% Solids	ND	0.200	%						
<b>Duplicate (5010186-DUP1)</b>					Source: B501105-01 Prepared: 01/13/05 Analyzed: 01/14/05				
% Solids	92.4	0.200	%		92.5		0.108	20	
<b>Duplicate (5010186-DUP2)</b>					Source: B501107-01 Prepared: 01/13/05 Analyzed: 01/14/05				
% Solids	82.6	0.200	%		82.5		0.121	20	

Great Lakes Analytical--Buffalo Grove

*Andy Johnson*

Andy Johnson, Project Manager

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Entact  
1010 Executive Ct. Suite 280  
Westmont, IL 60559Project: NL Dutch Boy  
Project Number: C969  
Project Manager: Rhonda Register**Reported:**  
01/17/05 17:15**Notes and Definitions**

&gt;220 &gt;220 °F

G26 The method requires this analysis to be performed immediately after sampling; however, the analysis was performed as soon as possible upon sample arrival at the laboratory.

O2 One or more internal standard recoveries were below the method specified acceptance criteria.

Pass No sample flowed.

QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Great Lakes Analytical--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307



Great Lakes Analytical--Buffalo Grove



Andy Johnson, Project Manager

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# CHAIN OF CUSTODY RECORD

Please call



AL with  
TCLP results

**CHICAGO OFFICE**  
1010 EXECUTIVE COURT  
SUITE 280  
WESTMONT, IL 60559  
630.988.2800  
630.988.0653 f

☐ **DALLAS OFFICE**  
4040 WEST ROYAL LANE  
SUITE 136  
IRVING, TX 75063  
972.580.1323  
972.550.7464 f

"Safety keeps you ENTACT"

**SAMPLE TYPE:**  
☐ Treated Stockpile  
☒ Untreated Stockpile  
☒ Excavation Verification  
☐ Air  
☐ Groundwater  
☐ Other

PROJECT INFORMATION									
NAME		JOB NUMBER		PHONE		EMAIL		REQUIRED TURNAROUND	
NL Dutch Bay		C-969		630 842 9864		R. Register		con	
LOCATION		Chicago, IL							
CONTACT		R. Register							
ANALYSES / METHOD									
MICRON FILTER									
DETECTION LIMIT CRITERIA									
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 124 Hour <input checked="" type="checkbox"/> TCLP									
COMMENTS									
B412135-01									
-02									
-03									
-04									
24 hr RUSHES									
-06									

NUMBER	DESCRIPTION	DATE	TIME	PRESERVATIVE					AIR
				MATRIX	GRAB	COMPOSITE	HCl	HNO3	
E11816FY	front yard	12-8-04	1020	S	X				X
E11816BY	back yard	1024							
118751BY	back yard	1027							
118751FY	front yard	1030							
LPS-001	profile sample - rush	1327							
LPS-001DNP	Duplicate profile sample	1327							

SHIPPING METHOD:		AIRBILL NO:		SAMPLER:	
delivered drop off		N/A		Rhonda Register	
SIGNATURE: Rhonda Register		SIGNATURE: [Signature]		DATE: 12-8-04	
PRINTED NAME: Rhonda Register		PRINTED NAME: Cathy [Signature]		TIME: 14:55	
SIGNATURE: [Signature]		SIGNATURE: [Signature]		DATE: [Date]	
PRINTED NAME: [Name]		PRINTED NAME: [Name]		TIME: [Time]	

MEDIA: S - Soil W - Water A - Air DISTRIBUTION: White Copy - To Customer w/Report Pink Copy - To Job File Yellow Copy - To Lab



GREAT  
LAKES  
ANALYTICAL

## CHAIN OF CUSTODY REPORT

1380 Busch Parkway  
Buffalo Grove, IL 60089-4505  
(847) 808-7766  
FAX (847) 808-7772

140 E. Ryan Road  
Oak Creek, WI 53154  
(414) 570-9460  
FAX (414) 570-9461

Client: ENTACT		Bill To:		TAT: STD. 4 DAY 6 DAY 2 DAY 1 DAY < 24 HRS.	
Address: 1010 Executive Ct Ste 200		Address:		DATE RESULTS NEEDED: 12-15-04	
Westmont IL 60059				PIU temp. Lab temp. 52	
Report to: R. Regester		Phone #: (630) 842-9864		Received at laboratory: <input type="checkbox"/> ambient <input checked="" type="checkbox"/> ice	
E-mail: rregester@entact.com		Fax #: ( )		Delivery Method: <input type="checkbox"/> STD <input type="checkbox"/> Other <input type="checkbox"/> GLA <input type="checkbox"/> Client <input type="checkbox"/> Shipped <input checked="" type="checkbox"/> Courier	
Project Name: Entact.com		State & Program:		THIS SECTION FOR LAB USE ONLY	
Project #/PO#: C.969		# of Bottles Preservative Used		LABORATORY ID NUMBER	
Sampler: R. Regester		SAMPLE MATRIX		LABORATORY ID NUMBER	
FIELD ID, LOCATION		DATE COLLECTED		LABORATORY ID NUMBER	
1 BF.001		12-9 1132 5 1		6412203-01	
2					
3					
4					
5					
6					
7					
8					
9					
10					
RELINQUISHED		RECEIVED		RECEIVED	
Blonde Regester		C. Michaelo		DATE TIME	
RELINQUISHED		RECEIVED		RECEIVED	
DATE TIME		DATE TIME		DATE TIME	
12-9-04 1530		12-15-04 1100		DATE TIME	
COMMENTS: Andy - Please call with results. Thank you.		PAGE		OF	
FAX # 8398-6660-0044					





Buffalo Grove, IL 60089-4505  
(847) 808-7766  
FAX (847) 808-7772

1380 Busch Parkway  
Italo Grove, IL 60089-4505  
(847) 808-7766  
FAX (847) 808-7772

Client: ENTACT						Bill To:						TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.					
						Address: 1010 Executive Ct Ste 280						<input type="checkbox"/> YES - TAT is critical <input type="checkbox"/> NO - TAT is not critical Received at laboratory: <input type="checkbox"/> ambient <input checked="" type="checkbox"/> ice					
Report to: Phone #: (630) 892-9864						State & Program:						Delivery Method: <input type="checkbox"/> STD <input type="checkbox"/> Other <input type="checkbox"/> Shipped <input type="checkbox"/> Courier					
E-mail: rreyester@entact.com						Fax #:						THIS SECTION FOR LAB USE ONLY					
Project Name: NL-Dutch Bay						# of Bottles Preservative Used						ANALYSIS TYPE					
Project #/PO#: C-769						MeOH NaHSO <sub>4</sub> HCl HNOS <sub>4</sub> MeSO <sub>4</sub> NH <sub>4</sub> OH NONE						SAMPLE CONTROL <input type="checkbox"/> CRACKED <input type="checkbox"/> BROKEN <input type="checkbox"/> IMPROPERLY SEALED					
Sampler: R. Reyster						SAMPLE MATRIX						LABORATORY ID NUMBER					
FIELD ID, LOCATION						TIME COLLECTED DATE COLLECTED											
1	G12210BY	PID:		12-16	1435	sail									BH12324-01		
2	U12024BY	PID:			1340										-02		
3	G12210FY	PID:			1430										-03		
4	U11818BY	PID:			1315										-04		
5	H12105BY	PID:			1334										-05		
6	I22820FY	PID:			1350 1420										-06		
7	I22901FY	PID:			1420										-07		
8	I18710FY	PID:			1250										-08		
9	I18710BY	PID:			1245										-09		
10	I22853-55 BY	PID:			1400										-10		
RELINQUISHED DATE: 12-16-04						RECEIVED DATE: 12-17-04						RECEIVED DATE: 12-17-04					
R. Reyster						J. [Signature]						Cathy Ficht					
RELINQUISHED DATE: 12-16-04						RECEIVED DATE: 12-17-04						RECEIVED DATE: 12-17-04					
COMMENTS:						PAGE						OF					



GREAT  
LAKES  
ANALYTICAL

## CHAIN OF CUSTODY REPORT

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FAX (847) 808-7772

140 E. Rydell Road  
Oak Creek, WI 53154  
(414) 570-9460  
FAX (414) 570-9461

Client: <b>ENTACT</b>		Bill To:		TAT: <input checked="" type="checkbox"/> STD 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.	
Address: <b>1010 Executive Ct Ste 230</b>		Address:		DATE RESULTS NEEDED:	
Westmont					
Report to: <b>Phone #: (670) 842-7844</b>		State & Program:		Deliverable Package: <input checked="" type="checkbox"/> Delivery Method: <input checked="" type="checkbox"/> Client <input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Courier <input type="checkbox"/>	
E-mail: <b>rragster@entact.com</b>		Phone #: ( ) Fax #: ( )		Received at laboratory: <input checked="" type="checkbox"/> ambient <input checked="" type="checkbox"/> ice <input type="checkbox"/> Lab temp.	
Project Name: <b>NL Dufek Bay</b>		# of Bottles Preservative Used		SAMPLE CONTROL	
Project #/PO#: <b>C-969</b>		NONE		CRACKED <input type="checkbox"/> BROKEN <input type="checkbox"/> IMPROPERLY SEALED <input type="checkbox"/>	
Sampler: <b>R. Ragster</b>		MeOH		LABORATORY ID NUMBER	
FIELD ID, LOCATION		NaHSO <sub>4</sub>			
		HCl			
		HNO <sub>3</sub>			
		H <sub>2</sub> SO <sub>4</sub>			
		NaOH			
		SAMPLE MATRIX			
		COLLECTED			
		TIME			
		DATE			
1 12-2853-55 BV (DUP)		12.14 1400		12-17-04	
PID:		soil		12-17-04	
2 12-2853-55 FY		1405		12-17-04	
PID:				12-17-04	
3 U11820 FY		1300		12-17-04	
PID:				12-17-04	
4 U11820 13V		1305		12-17-04	
PID:				12-17-04	
5 U12-046-48 BV		1540		12-17-04	
PID:				12-17-04	
6					
PID:					
7					
PID:					
8					
PID:					
9					
PID:					
10					
PID:					
RELINQUISHED		RELINQUISHED		RECEIVED	
R. Ragster		R. Ragster		R. Ragster	
12-16-04		12-17-04		12-17-04	
DATE		DATE		DATE	
TIME		TIME		TIME	
RELINQUISHED		RELINQUISHED		RECEIVED	
R. Ragster		R. Ragster		R. Ragster	
12-16-04		12-17-04		12-17-04	
DATE		DATE		DATE	
TIME		TIME		TIME	
COMMENTS:					
PAGE OF					



# CHAIN OF CUSTODY REPORT

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FAX (847) 808-7772

140 E. Ryan Road  
Oak Creek, WI 53154  
(414) 570-9460  
FAX (414) 570-9461

[illegible]

**SAMPLE TYPE:**  
☐ Treated Stockpile  
☐ Untreated Stockpile  
☐ Excavation Verification  
☐ Air \_\_\_\_\_  
☐ Groundwater \_\_\_\_\_  
☐ Other \_\_\_\_\_



**"Safety keeps you ENTACT"**

[illegible]

**DISTRIBUTION:** White Copy - To Customer w/Report   Pink Copy - To Job File   Yellow Copy - To Lab

MEDIA: 4C/4C RF

**SAMPLE TYPE:**  
☐ Treated Stockpile  
☐ Untreated Stockpile  
☐ Excavation Verification  
☐ Air \_\_\_\_\_  
☐ Groundwater \_\_\_\_\_  
☐ Other \_\_\_\_\_



**"Safety keeps you ENTACT"**

**Pink Copy - To Job File      Yellow Copy - To Lab**

**DISTRIBUTION: White Copy - To Customer w/Report**

W - Water    A - Air

**MEDIA:** S-SO

$$\frac{18.2}{2.8} = 6.5$$

# CHAIN OF CUSTODY RECORD

**SAMPLE TYPE:**  
☐ Treated Stockpile  
☐ Untreated Stockpile  
☐ Excavation Verification  
☐ Air  
☐ Groundwater  
☐ Other



☒ **CHICAGO OFFICE**  
 1010 EXECUTIVE COURT  
 SUITE 280  
 WESTMONT, IL 60559  
 630.986.2900  
 630.986.0653 f

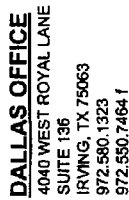
☐ **DALLAS OFFICE**  
 4040 WEST ROYAL LANE  
 SUITE 136  
 IRVING, TX 75063  
 972.560.1323  
 972.550.7484 f

"Safety keeps you ENTACT"

PROJECT INFORMATION																		
NAME		JOB NUMBER		LOCATION		PHONE		EMAIL										
ENTACT		C961		Dutch Boy		630.842.7867		R. Reagster										
CONTACT		ANAL. SES. METHOD		REQUIRED TURNAROUND		DETECTION LIMIT CRITERIA		COMMENTS										
R. Reagster		Total PB		Standard		5 Day		54014-01										
				3 Day		48 Hour		-02										
				24 Hour				-03										
								-04										
								-05										
								-06										
								-07										
								-08										
								-09										
NUMBER	DESCRIPTION	DATE	TIME	MATRIX	GRAB	COMPOSITE	HCL	HNO3	NONE	ICF	FLOW RATE (L/MIN)	VOLUME	NUMBER OF CONTAINERS SUPPLIED FOR EACH SAMPLE	ANAL. SES. METHOD	REQUIRED TURNAROUND	DETECTION LIMIT CRITERIA	COMMENTS	
P11020BY	back yard	12-27-04	1045	S	X	X				X			1					
P11024BY		12-28-04	1315	S	X	X				X			1					
P11024BY	Duplicate	12-28-04	1315	S	X	X				X			1					
P11034BY		12-27-04	1115	S	X	X				X			1					
P11020BY		12-27-04	1100	S	X	X				X			1					
P11020FY	front yard	12-27-04	1500	S	X	X				X			1					
P11020FY		12-28-04	1530	S	X	X				X			1					
P11024FY		12-28-04	1545	S	X	X				X			1					
P11034FY		12-28-04	1330	S	X	X				X			1					

SHIPPING METHOD: drop  
 AIRBILL NO:  
 S - Soil W - Water A - Air  
 MEDIA: S - Soil W - Water A - Air  
 DISTRIBUTION: White Copy - To Customer w/Report Pink Copy - To Job File Yellow Copy - To Lab  
 0°C on ice

**SAMPLE TYPE:**  
☐ Treated Stockpile  
☐ Untreated Stockpile  
☐ Excavation Verification  
☐ Air \_\_\_\_\_  
☐ Groundwater \_\_\_\_\_  
☐ Other \_\_\_\_\_

[illegible]

<b>MEDIA:</b>	S - Soil	W - Water	A - Air	<b>DISTRIBUTION:</b>	White Copy - To Customer w/Report	Pink Copy - To Job File	Yellow Copy - To Lab
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**SAMPLE TYPE:**  
☐ Treated Stockpile  
☐ Untreated Stockpile  
☐ Excavation Verification  
☐ Air \_\_\_\_\_  
☐ Groundwater  
☐ Other \_\_\_\_\_



**DALLAS OFFICE**  
4040 WEST ROYAL LANE  
SUITE 136  
IRVING, TX 75063  
972.580.1323  
972.550.7464 f

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MEDIA:	S - Sail	W - Water	A - Air	DISTRIBUTION:	White Copy - To Customer w/Report	Pink Copy - To Job File	Yellow Copy - To Lab
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